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THE

Gentleman's Diary,

MATHEMATICAL REPOSITORY; An ALMANACK

For the YEAR of our LORD 1789:

FIRST AFTER BISSEXTILE.

Containing many useful and entertaining Particulars, peculiarly adapted to the ingenious Gentlemen engaged in the delightful Study and Practice of the

MATHEMATICKS.

The Forty-ninth ALMANACK published of this Kind; and the Thirty-seventh of the New-Style in England.

With wife Intent

The Hand of Nature on peculiar Minds
Imprints a different Byafs, and to each
Decrees its Province in the common Toil.
To fome the taught the Fabrick of the Sphere,
The changeful Moon, the Circuit of the Spars,
The golden Zones of Heaven: to the Spars,
The golden Zones of Heaven: to the Spars,
To weigh the Moment of eternal
Of Time, and Space, and Fate's the Chain,
And Will's quick Impulse.

LONDON39

Printed for the Company of STATIONERS:

And Sold by ROBERT HORSFIELD, at their Hall in

LUDGATE-STREET. 1789.

[Price Nine Pence stitched.]



Two Selar and two Lunar ones.

May 9, 435 min. gaft 9 in the morning the Moon will be etilefed 20 54' on the northern limb, but invifible here.

May 24th, the Sun will be eclipfed, but invisible here, the conjunc-

tion being at 10 h. 20 m. 30", in long. 25. 4° 3', D's lat. 30' 30" S central on the Merid. at 10 h. 18' in long. 254° Wheth lat. 22° South.

Nov. 2, The Moon eelipsed visible. Begins 11 h. 27 m Middle 12 h 32 m. End I h. 36 m. in the morn. of the third. Digits eclipfed 30 40' on the D's fouthern limb.

Nov 17th, in the morning, the Sun will be eclipsed, invisible here. the conjunction being at 3h, 20 m.; but the aclipse will be central on the merid. 22 m. past 3 in l ng. 1290 East, lat. 140 S.

Venus will be a morning star till the last of May, and then an evening

far to the year's end.

Jupiter will be an evening flar from Jan, 14th till Aug 2d, then a morning frar.

A transit of the plane: Mercury over the Sun will happen next

year: it begins I h. 10 m. and ends 6 h. 4 m. aftern. Nov. 5.

Aftronomers have some expectation this year of the return of the Comet observed by Appian in 1532, and by Honelius, in 1661. The observarious of the former are very netective and doubtful; and the perihelian differe far more than it ought from that refulting from the observations of the latter; but, as the rest of the elements are remarkably near, it is generally concluded, that it was the same comet which each of them observed; and that its return towards the Sun may be expected in the spring of 1780.

ACKNOWLEDGEMENTS.

A Letter from Mr. J. Fletcher of Liverpool, containing ingenious answers to the 1. 9. 10. 11. and 15th. queff. for the use of last year's Diary. did not come to the Editor's handstill May 1788.

Through overlight, Mr. A. Oliver's name was omitted among the names

of the aniwers of quest. 7th last year.

1900.

The information from Taffe of Briftol is thankfully received, viz. that the original hymn enquired after p. 23. Diary 1787, was inferted in the Gentleman's Magazine Feb. 1749 (fignature Crito of Witney).

Mr. Unwin's Letter in Nov. 1787 came unopened to the Editor's hands in May 1788, for which reason he was disappointed of his priz-Diaries. All le ters concerning these prizes must be directed (post-paic to Mr. Horsfield, who will deliver them to order any where in Londo But all letters containing matter for the Diary must be directed only nsual. For the Gentleman's Diary Stationer's Hall London. And m

THE prayether-before the 1st of May 1789, otherwise they will be too late DIIDI 1041 Reposits of Questions in Dynamics and Hydrodynamics, if PUBLIC And Proposers of Unentions in a pounder of the answers with them. the affice to be found! One that was fent this year amoun

the fame as the famous problem of three bodies, which has puzzled ASTOR, UNIVERSE AMBINED TO years, and never yet been completely to

	J	ANUARY hath XXXI Day	78.	D		Dec.
1	irtt :!!	Quarter 4th Day, 24 m. patt 4 Atternoon. Moon 11th Day, 46 m. paft 5 Afternoon.		6	220	57
1	aft	Quarter i8th Day, at 39 m. past 8 Morning.		[11]	2 I	41
1	New	Moon a6th Day, 21 m. paft 6 Morning.			20	48
		O enters = 19th Day, o H. 38 M. Afternoon.		21 26	18	44 31
ľ	T	Circumcifion.	9'	a 36	. 3	a 40
	F	•	13	41	4	I.
3	S		ľŀ	46	5	. 3
4		2d Sunday after Christmas.	me	drn.	5	40
Ş		Old Christmas Day.		54	6	3:
6	T	Epiphany, or Twelsth Day.	2	4	7	2 1
7 8	W		3	14	8	14
	I.	Lucian C. and M.	4	25	9	11
9	F		5	30	10	10
	S	00 1 6 7 1	2	20	1 I	1 :
11	12	ist Sunday after Epiphany.	٠ ١	ilics.	12	_ I :
[2		Old New Year's Day. Plough-Monday.		a 42		orn.
13	3,	Hilary B. and C. Cambridge T. hegins.	8	8	1	. 11
14		Oxford Term beg. Days increased half	1	31	2	7
15	T F	an hour.	9	53	3	· c
16		Old Tourish Day	11	13	3	52
17 18	2	Old Twelfth Day.	l, me	orn.	7	•
	7 X	2d Sund. aft. Epiph. Prisca, V. & M.	١.	30	5	32
19	147	Q. Charlotte's Birth-Day kept. Fabian, B. et M. In 8 d. of St. Hil. 1 Ret	1	43		21
2 I		Agnes, V. & M.	2	55	78	14
22		Vincent, M.	3	58	8	5 (
23	_	Hilary Term begins at Westminster.	4 5	52 38		46
24	1	l limit y Term begins at Westminiter	6	17	10	
25		3d Sund. aft, E. Conversion of St. Paul		48	ΙI	3 : 2 :
	м	Days increased r' Hour.		fets.	a	_
27	T		, -	a, 1.3,	٦.	48
	w	[St. Hilary 2 Ret	7	17	1	30
29	1 ~		18	21	1	11
30		K. Charles I. Martyr. 1649.	9		ī	5:
31	Is	1	10			3.
		Rife Sets. Cl.bef. D. Break Sun Eaft Saturns	60)J			
1		4 3 56 4 23 5 59 4 41 32	61 0	m	7 1	ı mş.
6	1	1 3 59 6 88 57 , 43 3	-1	1 4		•
116	, .	56 4 4 8 41 52 46 5 50 4 10 10 28 49 50 2 4	-1		5 1	-
16			7 1		5	
126		36 4 24 17 10 38 58 2	811		و ا	

	ys o Ded.
Fuft Quarter 3d Day, 25 m. past 9 Morning. Full Moon 10th Day, 8 m. past 4 Morning. Last Quarter 16th Day, 10 m. past 10 Afternoon. New Moon 25th Day, 14 m. past 1 Morning.	1 16° 53' 6 15 24 11 13 46 16 12 4
O entere of 18th Day, 3 H. 28 M. Morning.	26 8 26
M W Sundays, H. lidays, Birth-Days, D D Terms, &c.	R.&S. South.
4th Sunday after Epiphany. Purification of B.V.M. or Candlem.Day	morn 5 6
3 T Blaffius, B.&M. On Mor. of Purif. 3 Ret.	49 5 56
4 W	1 56 6 49 3 4 7 46
5 T Agatha. V. & M. Old St. Paul.	3 4 7 4 ⁶ 4 4 8 45
i alei 🕠 🧸	4 55 9 46
8 D Septuageuma Sunday.	5 39 10 45
9 M In 8 Days of Purif. 4 Ret.	6 14 11 43 D rifes. morn.
10 1 11 W	7 2 18 40
12 T Hilary Term ends at Westminster.	8 13 1 34
13 F Old Candlemas-Day. Days incr. 2 hours	
14 S Valentine, B. & M. D Sexagelima Sunday.	morn. 4 13
1-311	morn. 4 13
1 and	1 44 5 58
17 1 18 W	2 44 6 50
[19]T	3 34 7 41
20 F	4 13 8 30
21 S Camb. Term divides now.	4 49 9 18
1 126	5 10 10 3
23 M Shr. Tu. St. Matthias. Pr. Adol. Fr b	6 111 26
24 W Ash-Wednesday. 1st Day of Lent.	D sets. aft. 11
[26] T	7 a 18 53
27 F	8 25 1 35
25 8 Days increated 3 hours.	9 32 2 15
DORiles O Sets. C. bef. OD. Break. O Lait Sai.	S. Jup. S. Mars S
D Rifes O Sets. CL. bef. D. Break. O East Sar.	a 46/10 a 33/11m 20
6 7 17 4 43 14 34 22 9 1	20 10 11 11 22
11 7 8 4 52 14 39 14 15 1 16 6 59 5 1 14 25 6 2 0	12 9 50 11 18 51 9 29 11 15
21 6 40 5 11 13 54 4 57 27 0	37 9 8 11 11
6 6 20 5 21 13 7 48 33 0	20 8 4 1:1
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MARCH hath XXXI Days.		MD		Decl. 1 h.
First Quarter 4th Day, 51 m. past 10 Night.	-	11	70	17
Full Moon 11th Day, 50 m. past 1 Asternoon.		6	5	22
Laft Quarter 18th Day, 15 m. paft 2 Afternoon. New M.on 26th Day, 46 m. paft 6 Afternoon.		11	3	24 26
McM M. 10W sam sell de me barr a servencen.		21		th 32
o enters or 20th Day, 3 H. 52 M. Morning,		126	2	20
ID ke Sunday in Lent. David, A. Bp.	10 :	4 39	3	a 5
2 M Chad, Bp.	IJ	48	3	54
3 T	mo	rn.	4	45
4 W Ember Week.		54	5	39
5 T [I	- 53		35
6 F	2	46	7	33
7 S Perpetua. Old St. Matthias.	3	23	1	31
8 Q ad Sunday in Lent.	4	10	'	28
9M 10 T	4	42	!	25
10 T 11 W	5	iles.	11	20
	-		131	orn.
[[* [- 450 - 45 - 4	′	"	I	15
14 8	10	19 Q	•	9 4
50 ad Sunday in Lent.	11	33	2	59
16M		orn.	3	54
17 T Patrick.		38	4	48
18 W Edw. K. W. Sax.	1	32	١ς	40
19 T	3	16	6	31
20 F Spring begins,	2	55	7	2 C
21 S Benedict, Ab.	3	26	8	7
22 Dath Sunday in Lent. Midlent Sunday.	3	50	8	52
[23] M	4	13	9	3 4
[24] T	4	34		17
²⁵ WAnnunciation of B. V. M. Lady-Day.	4	53	10	55
[26] T	D	fets.		41
[27] F	8	a 31		
28 S	1	39		II
29D th Sund, in Lent. 30 M Days 12 H. 45 M. long.	10	52		59
31 T	11	54 5(1 2	50
D Rifes Sets Cl. bef. O D. Break East Saturn				4.
			3.11	_
1 6 34 5 25 12 33 4 43 5 37 0 a 1 6 6 24 5 36 11 35 32 43 11 mg			55 ' 16 1	
11 6 14 5 46 10 6 21 49 11	10	7	57¦I	0 5
	- 1		- 1	0 5.
		7 : 7		o 5
The state of the s	<u> </u>			· · · · ·

APRIL hath XXX Days.	D	O Dec.	
First Quarter 3d Day, 30 m. past 3 Morning. Full Moon 9th Day, 24 m. past 11 Night.		4° 49	
Last Quarter 17th Day, 50 m. past 7 Morning.	4,	1 . 7)	
New Moon 25th Day, 57 m. past 9 Morning.		10 22	
O the Hard Day AV TOM Afternoon	2	J2 5	
O enters & roth Day, 4 H. 38 M. Afternoon		Str 3 44	
1 W 2 I	morn.	4 a 3	
1 - 1 - 2 - 3 - 3 - 3 - 3	I 3	5 3	
Tolo A Luis Outsut Trans. and	2 16	0 3	6
	2 50	1 4 -	- 1
5 D bth Su. in Lent. Palm Sund. O.L.D. 6 M	3 1		- 1
7 T	3 4	1 -	है।
8W	4 10	1	2
9 T Maundy Thursday.	Drifes	11 5	•
o F Crucifixion. Good Friday.	7 2 5	, ,	
118	9 10		- 1
12D Easter-Day. The Resurrection.	10 20		٠,
MEaster Monday.	11 2		
14 T Easter Tuesday.	morn.		В
I S W	19		ī
16 T		5 2	
17F	1 2	1 2	9
88			5
oD aft Sund. aft. Eafter. Low Sund. Alph.	2 2	ب	9
20 M	2 40	8 2	
21 T		9	3
22 WiOxf. and Camb. Terms begin.	3 2	11.5	5
23 TSt. George, M.	3 4	' '	8
24 F	1	: 1	3
25 St. Mark. Prs. Mary bo. 1776.	D fets.	1 2	1
26D 2d Sunday after Eafter.	8450	5	2
27 M Eafler Term 1 ret.	9 50		
28 T	10 5		٠,
29 W East. Term begin at Westminster.	11 4		6
30 T	morn.		2
D OR res O S-ts Cl.bef. O D. Break O Eaft Saturn	S. Jupiter		_ [
1 5 32 6 28 3' 46" 3 33 6 15 10 m 3	0 6 4	12 Iom 4	ᆈ
6 5 22 6 38 2 17 20 21 10 1	4 6	5 10 4	ю
	8 6		6
16 5 7 6 57 aft.24 2 54 33 9 4 21 4 54 7 6 1 31 40 39 9 2			8
	, ,		8
			'

First Quarter 2d Day, 2 m. past 3 Atternoon. Full Moon 9th Day, 22 m. past 9 Mouning. Last Quarter 17th Day, 44 m. past 1 Morning. New Moon 24th Day, 20 m. past 10 Night. First Quarter 31th Day, 44 m. past 7 Afternoon. O enters II 20th Day, 5 H. 12 M. Asternoon. 1 F St. Philip & St. James Ap. 2 S	17' 44 3 16 20 15 27 21
Laft Quarter 17th Day, 44 m. paft 1 Morning. New Moon 24th Day, 20 m. paft 10 Night. First Quarter 31th Day, 44 m. past 7 Asternoon. O enters II 20th Day, 5 H. 12 M. Asternoon. 1 F St. Philip & St. James Ap.	3 16 20 15 27 21 13
New Moon 24th Day, 20 m. past 10 Night. First Quarter 31st Day, 44 m. past 7 Afternoon. O enters II 20th Day, 5 H. 12 M. Afternoon. 1 F St. Philip & St. James Ap.	16 20 15 27 21 13
First Quarter 31st Day, 44 m. past 7 Afternoon. O enters II 20th Day, 5 H. 13 M. Afternoon. First Philip & St. James Ap.	20 15 27 21 13
11 F St. Philip & St. James Ap. 10th 23 5 8	27
	21 13
12 5	13
	-
3 D 3d Sund. aft. Easter. Invent. of the Cr. 1 27 7	
4 M Easter T. 2 ret. 1 53 8	_ 4
Student Barrier Barrier	57
	49
	43
	38
15 D 4th Sunday after Eafler. 9 2 17	
11 M East. T. 3 ret.	33 28
12 T Old May-1)ay. 10 56 2	22
11 35 3	14
14 T inform. 4	4
	5 i
[16 S 29 5	31
17 D 1th S. after Easter. Rogation Sunday. 51 6 18 M East. T. 4 ret. 7	19
	Ò
Q. Charlotte born 1744. Dunstan. 1 20 7	42
20 W I 50 8	25
21 T Ascention-Day. Holy Thursday.	9
22 F P1s. Eliz. born 1770. 2 36 9	56
23 5	45
24 D Sunday after Ascension-Day, 25 1 On morrow of Ascen. 5 ret. East. T. ends. 8 a 52 aft	37
Lactoria of A.D.	
1 (2)	29 26
Land Control of the C	22
29 P. K. Charles II. Birth and Return, 1660. 11 30 4	1;
30 S 11 57 5	10
31 D Whit-Sunday. morn. 6	
D O Rifes O Sets Cl.aft. D. Break O Eaft Seturn S. Jupiter S. M	ars S
1 4 36 7 24 3 10" 2 4 6 50 8 52 5 3 10	
6 4 27 7 33 3 41 1 50 6 55 8 34 4 47 10	1:
16 4 19 7 41 3 57 1 28 7 0 8 16 4 31 10 16 4 12 7 48 3 50 1 4 7 4 7 58 4 14 17	
16 4 12 7 48 3 59 1 4 7 4 7 58 4 14 rg 21 4 5 7 55 3 46 0 24 7 8 7 30 3 58 9	
26 3 58 8 2 3 20 0 0 7 12 7 20 3 42	_

JUNE hath XXX Days.	D	O Da Nari	
Fun Moon 71h Day, 17 m. patt 8 Afternoon.	1 7	220	9'
Last Quarter 15th Day, at 5 m. past 7 Asternoon. New Moon 23d Day, 5 m. past 8 Morning.	6	24 23	44
First Quarter 30th Day, 44 m. before 1 Morning.	16	23	9
O enters 2 21ft Day, I H. 55 M Mozning.	21	23	28
MARCINIC DA VI DAT	om 21	6	52
TW nit-I welday.	0 46	7	43
3WEmber Week.	ı io	1	34
4 T K. Geo. III. Do. 1738.	1 36	9	26
Fr. Erneil A g. b. 1771. Boniface, B.M.	2 7	10	20
	2 43		14
8 M On Morrow of H. Trin, 1 Ret.) rifes. 8 a 4.7	mo	rn. 8
	8 a 47 9 29		1
l lena e sea	0 2	1	52
- bt Karnahac - ou tot	0 29	i	41
	0 52		27
13 S Drift Sunday after Trinity.	I I 2	4	10
1'4 age on car m. n	1 31	1	52
	I 50		3.3
16 T 17 WSt. Alban, M.	morn.	6	15
18T	33	- ·	58
19 F	59	1 -	43 30
S Tr. of Edw. K. W. Sax.	1, 30	1	21
12.1	2 (10	15
22 M In 15 Days of H. Tr. 3 Ret.	2 58	3,11	11
23 T 24W St. John Bapt. Midsummer Day.	D lets.	aft.	9
1 1 1	8 a 5		7
25 1 26 F	9 50	. 1	4
[27] S.]	9 5° 10 2		59 52
28 D 3d Sunday after Trinity.	10 4	1	43
1 71 1		5 5	34
	113	41 6	25
D O Rifes O Sers Cl. afr. O O Eaft Saturn S	Jupite	rS. M	lars S
1 3 52 8 8 2 32" No 7 16 6 m 5			m 42
6 3 48 8 12 1 43 real 18 6 3 71 3 45 8 15 0 46 Night, 19 6 1		41 9	36
16 3 43 8 17 bef. 15 but 20 5 5	7 2		24
71 3 43 8 17 1 20 Twi- 21 5 3 20 3 44 8 16 2 25 light. 20 5 1	1		18
20 3 44 6 10 2 25 Hgnt. 20 5 1	/ I · *	58 !	9 11

I II L Y hath XXXI Days.		ODeei.
Full Moon 7th Day, 31 m. past 8 Morning.	1 1	23° 5
Last Quarter 15th Day, 21 m. past 11 Morning.	6	
New Moon 22d Day, 1 m. past 4 Afternoon.		22 3
First Quarter 29th Day, 20 m. past 6 Morning.		21 17
enters R and Day, o H. 44 M. Afternoon.		20 22 <u>1</u>
1 W I rinity Terms ends.	morn.	7 18
2 T Visitation of B. V. Mary.	6	
2 F Dog-Days begin.	37	9 ź
4 S Trans. of St. Martin.	1 18	
5 D 4th Sund aft. Trin. Old Midsum. D.		10 49
6 M	3 -2	11 4
7 T Thomas à Becket. Camb. Commencem.	D rifes.	
8 W	8 a 25	29
9T	8 50	
10 F Old St. Peter. Camb. Term ends.	9 12	1
118	9 32	1
1 2 D 8th Sunday after Trinity.	9 50	
13 M Oxford Act.	10 11	
14 T	10 31	
15 W Swithun, B. Tr.	10 55	5 31
16 T	11 24	
17 F	11 58	
18 S Oxford Term ends.	morn.	7 56
191 6th Sunday after Trinity.	42	
20 M Margaret, V. & M.	I 36	9 48
21 T	2 42	
22 W St. Mary Magdalen.	D feis.	
23 T	7 4 54	aft. 44
24 F	8 22	1
25 St. James Apof.	8 48	2 33
26 D bib Sund. att. Tr. St. Anne. O.St. Swith.		
[27]M	9 37	
[28]T]	10 6	
29 W	10 38	
30 T	11 17	1
31 F	morn.	7 50
D Rifes Sets Cl.bef. O D. Break Eail Saturn	6. Jupiter	
		2 9
6 3 49 8 11 4 18 No 18 4 3	17 I 2	و و
	,	10 8 54
16 3 58 8 2 5 36 Night. 12 3 5 36 1 12 3 5 36 1 12 3 5 36 1 12 3 5 36 1 12 3 5 36 1 12 3 5 36 1 12 3 5 3 5 3 5 5 5 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		54 8 48 8 8 4
		3 8 36
	oogle	

	THAR
AUGUST hath XXXI Days	D North.
Full Moon 5th Day, 27 m. past 10 Night.	1 170 53
Last Quarter 14 h Day, 4 m. past 2 Morning.	6 16 31
New Moon 20th Day, 18 m. paft 11 Night.	भवाधित इ १६
First Quarter 27th Day, 14 ma past 3 Afternoon.	16413 33
o enters my 22d Day, 7 H. 3 M. Afternoon.	26 40 12
1; S. Lammas Day.	
i 1	
2 D 8th Sunday after Trinity. 3 M	77 7 77
	1 20 - 21
Thurst Co. Louis	المن بالروب ا
	Drifes. 11 50
6 T Transfiguratios.	7 2 17 morn.
7 F Prs. Amelia born 1783. Name of Jesus.	
8 8	7 58 I 22
9 D oth Sunday after Trinity.	8 17 2 4
MSt. Laurence, M.	8 38 2 41
TPrs. of Brunsw.born 1737. Dog-days end.	9 9 3 24
Proof Wales b. 1762. Old Lammas-D.	9 28 4 13
3 1	9 59 5 9
14 I	10 40 5 49
ı 5 S Assumption.	10 40 5 40
16 D toth S. aft. Tr. D. of York bo. 1763.	morn. 7 36
17 M	23 8 32
is T	1 32 9 30
19 W	2 5010 28
20 T	D fets. 11 25
F Pr. Wm. Henry born 1765.	6 a 50 aft. 22
22 S	7 18 1 18
1 1	1 1 1
2 JD 11th Sunday after Trinity.	1 2 1
2+M St. Bartholomew, Apost.	1 2 7
25 T	
26'W	9 22 4 56
27 T C. Aum Gin B	10 7 5 51
28 F St. Augustin, B.	10 57 6 44
20 St. John beheaded.	11 53 7 36
30 D rath Sunday after Trinity.	morn. 8 26
3	1 51 9 14
	S. Jupiters. Mars S.
1 4 20 7 40 5 51" 1 24 7 0 2 m	
	30 11 m 50 8 26
	10 11 35 8 21 50 11 21 8 16
	30 11 7 8 12
-6' 5 4 6 56 1 23 2 50 23 1	الم عادة الم
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	EPTEMBER hath XXX Day	s.	M D	O,	eci.
	l Moon 4th Day, 7 m. past 2 Arternoon.		I. I	1 80	31
La	ft Quarter 12th Day, 54 m. paft 2 Afternoon.		5	6	12
Ne	w Moon 19th Day, 6 m. past 7 Morning.		11	1	19
Fi	st Quarter 26th Day, 48 m. past 3 Morning.		16	1 2	23
			21	١٠	27
	O enters - 22d Day, 3 H. 28 M. Afternoop.		126	1	\$ 30
11.1	Giles, Ab. and C.	L	n 59	10	O
2 V	London burnt 1666, O.S.	3	5	10	44
3 7		4	10	11	27
	Old St. Bartholomew.				
3 8	Old Old Burtholomove.		iics.	AHC	orn.
515	1 3th Sunday after Trinity.		a 30		10
OIT	1 3th Sunday after Trinity.	6	52		52
7 N	l Eunurchus, B.	7	15	1	34
8/7	Nativity of B. V. Mary.	7	39	2.	18
914		8			
191			9	3	4
	•	8	45	3	52
11 H	3	9	28	4	42
12 8		10	21	5	35
13 I	14th Sunday after Trinity.	111	25	5	29
14 N	Holy Cross	1 -	orn.		
15/7	1	l ''''		7	25
			36	8	2 !
	Ember Week.	I	52	9	17
17/7	Lambert, B. M.	3	15	10	13
18 B	· ·	4	3₿	11	8
19 5			fets.	aft.	
<i></i>					4
191	n 5th Sunday after Trinity.		a 21	I	. 1
	St. Matthew. Evang.	6	52	I	57
22]]	K. George III. crowned 1761.	7	28	2	54
23 V		8	10	3	. 50
24 7		٦	0	, ,	-
25 I	•	9		4	45
		9	56	5	3 9
	St. Cyprian, M.	10	57	6	31
27 I	n6th Sunday after Trinity.	m	orn.	7	21
28 N	ij :	ł	1	8	8
2017	St. Michael. Prs. Cha. Aug. M. bo. 1766.	lı	7	8	
2010	VSt. Jerom, C. P.	2	•	1 -	53
			12	9	37
(י)ן ע	iles OSets Cl.aft. O D. Break O Balt Saturn S			S. N	larsS.
11 5					
6		10		- 1	7 57
11	7 37 77 37 37 -77 - 1	10		이 ?	•
16	1 TT TT TT TT TT TT TT TT			5 7	
16 6	, 54 1 54	, ,		1 3	
-01 6	15 ch 8 c4 4 - 7 5 55 11	719	2	71 7	27

0	CTOBER hath XXXI Days	3.	MD		Decl-
Full	Moon 4th Day, 5 m. past 7 Morning.	-	1	3°	27'
Laft	Quarter 12th Day, 37 m. past 1 Morning.		6	5	23
New	Moon 18 Day, at 19 m. past 4 Afternoon. t Quarter 25th Day, 8 m. past 8 Night.		16	7	17
	. Carre 23. 22. 23. 2		2 I	9	58
	O cate a m 22d Day, 11 H. 24 M. Night.		26		42
	Remigius, Bp.	3 m	17	10	19
2 F	Old St. Matthew.	4	21	ΙĮ	· 6
3 S	,	5	25	IJ	42
4 D	17th Sunday after Trin ty.	D rif	es.	mo	rn.
5 M			53		26
1 1	Faith, V. M.		22	1	11
7 W			5 5	I	58
8 T	C. D. D. A.		30	2	47
9 F		1	24	3	38
to S	Oxf. and Cam. T.be. O. Michaelm. Day.		21	4	31
1 2 P	n8th Sunday after Trin.	l .	29	5	25
1 1	Transl. of K. Edw. Conf.	I I mor	40	6	20
1 7/50		11101		7	14
14 W		2	59 19		2
161 F		3	40	9	56
17 8	Etheldred, V.	5		10	50
18D	19th Sunday after Trinity. St. Luke.		ets.	i .	46
19 N	l dinday and Timity. Dr. Edac.	1-	29	-	44
20 T		6	10	ı	42
21/1	1,	6	56	2	39
22 T	'	7	51	3	35
23 F		8	52	4	29
24 S	'	وا	56	5	20
25 D	20th S. afr. Tr. K. Geo. III. Acces.	11	Θ	6	8
26 N	K. Geo. III. Poclam. 1760.	moı		6	54
27 1	· ·	1	6	,	38
28 M	St. Simon and St. Jude.	I	2	8	20
1291 5	•	2	15	9	2
30 F	1	3	20	•	44
3118		1.4	25		27
	Rifes O Sets Cl.aft. O D. Break O Eaft Saturn				
6 6		18 9 n 29 8		- 1	m 34
111 6		9 8		7 7	~
ril 6	43 5 17 14 28 49 31 9	49 8	2	7 7	10
21 6		29 8		5 6	, ,
, 7	2 4 58 15 55 5 8 16 9	91 7	5	51 6	541

١.		OVEMBER hath XXX Day	3.	M	O I	Deci.
		3d Day, 38 m. before 1 Morning.			140	41'
•	Νέν	Oparter 10th Day, 30 m. past 10 Morning.		6	16	13 38
I	irft	Quarter 24th Day, 42 m. past 3 Afternoon.		16		56
_	_	⊙ enters # 21ft Day, 7 H. 37 M. Afternoon	•	2 I 2 6	20	6
ī	Ð	zrit Sunday after Trinity. All Saints.	5		<u></u>	a 12
2	M	Pr. Edw.b. 1767. Omnium Defunctorum.		rifes.	II	59
3	T	Prs. Sophia bo. 1777. On Mor. of All	5			orn.
4	W	[Soule + Ret	5	38		48
5	T	Powder Plot, 1605.	6	25	1	39
6	F	Leonard. Michaelmas Term begins. D. of Cumberland b. 1745.	78	19	2	31
7	3	D. of Cumberland b. 1745. 22d Su. aft. Tr. Prs. Aug. Sophiab. 1768.	8	21	3	24
8	30.5	Lord Mayor's Day at London.	9	32	4	17
9		Don't Liby of a Day at Mondon.	10	46	5	2 C
10	1 -	Sr. Martin, B.	mo	orn.	6	3
[1	100	On Mor. of St. Mart. 2 Ret. Camb.T.	۱.	3	6	55
1	1 -	Britius, B. div.	I 2	21	7	47
13			1	41	1	39
15		23d Sunday aft Trin. Machutus, B.	4 5	22	10	32 27
16			16		11	24
17	T	Hugh, Bp. of Lincoln.	0	fets.		
18	l W	In 8 Days of St. Mart. 3 Ret.	1 -	a 34	. 1	18
119			6	33	2	. 14
20		Edmund K. & Mart.	7	37	3	· {
21		and Courage The	8	42		51
2 2	-	- Cacina. Olwothylaitin.	9	49	4	4
23	1	St. Clement, B. M.	10	,	5	31
2.	T	D. of Glove, b. 1742.	m	orn.		1
2	5 W	D. of Glouc, b. 1743; Cath. In 15 days	3	C		5
20	1 =	[of St. Mart. 4 Ret		4		3
2	- 1 -	Michaelmas Term ands	2	,		
12		Michaelmas Term ends.	3		. 1 -	
20	ל! מ'ז∨	Sr. Andrew, Apost.	1 4		1 1	•
1-		Rifes! O Sets Cl. aft. O D. Break O Eaft Saturn				
1-	1 2		45	7 m		6m 4
1.0	5 7	22 38 16 7 24 7 8	25	7	18	6 :
		30 30 15 39 32 1 8	5		59	6 ï
10	1		4 °		40 2 I	6 5 !
	6	52 8 12 9 49 49 7	2	6	2	3 2

DECEMBER hath XXXI Day	s. 10	South.
Full Mo n 20 Day, 39 m. pall 4 Afternoon.	1.5	72'7 90
Last Quarter 9th Day, 17 m. past 6 Afterican. New Moon 16 h Day, 43 m. past 4 Alterna n.	6	22 36 23 5
First Quarter 24th Day, 11 m. past 1 Afternoon.		23 22
•	21	23 27
o enters be 21st Day, 7 II. 59 M. Morning.	_ 26	
·1 - 1	6m'20	
	Prifes.	
Γ	5 at 6	' '
4 F	6 9	1 1
S S S Synday in Advant Nicolas B	; ji 16 8 20	1 1
6 D 2d Sunday in Advent. Nicolas, B.		, ~ ,
7 M 8 T Conception of B. V. Mary.	. 9 44 .cr 1	3 53 4 44
les 71 - i	. morn	9 44
9 W 10 T	18	
i (F)	1 37	7 17
12 8	2 53	8 8
13 D 3d Sund. in Advent. Lucy, V. & M.	4 11	9 2
14[M]	5 24	9 57
rs T	6 33	10 53
16 W Ember Week. O Sapientia. Camb. T.e.	D fets.	11 50
17 T Oxford Term ends.		aft 44
18 F	6 12	, ,
19 5	7 20	-1
20 Digth Sunday in Advent.	8, 26	1 - 1
21 MSt. Thomas. Shortest Day.	9 32	
22 T 23 W	10 30	
of miles	morn.	17 1
		ا ما
25 F Nativity, or Christmas-Day. 26 S St. Stephen, Protomartyr.	1 45	ו יי
27 Dist Sunday after Christmas. St. John.	2 51	1 2 1
28 M Innocents' Day.	3 5	1
29 T	.5 6	1
30 W	5 5	
31 T Silvester, P.	1 5 -	11 42
D Rifes Sets Ll. art. O D. Break Eatt Saturn		
1 7 57 4 3 10 22 5 54 4 45 6 8 4		43 5m 26
6 8 2 3 58 8 19 56 43 6	9 . 5	21 5 8
		59 4 50
		37 4 3 ²
	, ,	53 3 58

ANSWERS to the QUESTIONS Critical and Philosophical.

LXXVI. Mr. J. Burrow, Mr. H. Mellanby, Mr. J. Needbam, Mr. D. Robarts, Virgilius, Mr. J. Ward, and Mr. J. Winterbettom, gave answers to the following effect, vis.

That eating swine's flesh kinders transpiration, and thence causes cutaneous and scrofulous disorders, especially in hot climates, where

it must consequently be unwholesome food. And Mr. J. Carrus, Mr. J. Jackson, Mr. W King, Mr. T. Peat,

and Mr. J. Walton, have also given ingenious answers. LXXVII. Answered by Mr. Jackson of Huston-Rudby School.

In Dan. v. 8. it is faid, "They could not read the writing, nor make known unto the king the interpretation thereof." But in the Latin tranflation of Junius and Tremellius, it is" Non possent scripturam illam legere, er interpretationem notam facere regi." They could not read the writing, and make known unto the king the interpretation thereof; i. c. though they possibly could read the words, yet they could not explain the meaning.

And this is also agreeable to the answer of the learned Philocriticus. We were also favoured with answers from Messis Burrow, Cairus, Cavill, Needbam. Peat, Robarts, Rowe, Walton, Ward, and Winterbottom.

LXXVIII. By Mr. J. Burrow, of Bolton-Field.

Certainly the Holy Ghoft inspired the facred penman to write this verse in Chaldee, that the Jews, going to Babylon, might reply to the Chaldeans in their own tongue, when they folicited them to worship their idols. Curfed be your gods, for they neither made heaven nor earth.

And to the same purport are the answers of Messrs. Caville, Jackson, Mellanby, King, Needbam, Peat, Rowe, Walton, Ward, and Winterbottom.

IXXIX. By Mr. J. Ward, the proposer.

When St. Paul was complaining of the weight and bitternels of fin, very probably he compared it (by the allusion in question) to the hideous and execrable mode of punishment, mentioned in the 8th book of the Æneid, as practifed by Mezentius, who punished his subjects by binding a dead to a living body till it caused the transgressor's death.

Mesfrs. Mellan'y, Needbam, and Winterbottom also suppose the Apoltle to allude to this cufforn. But Mr J Walton supposes him to mean to fay, " From the power of those finful passions, which are continually frustrating all my pious resolutions, and subjecting me to the most excruciating forrow and remorfe, even worse than death itself." this fense the words are taken by Meffrs. Cairus, Cavill, Jackson, Burrow, Lowry, Peat, Rowe, and Virgilius.

LXXX. By Mr. J. Winterbottom of Failsworth School.

Light is an intermediate fluid betwixt fire and air, distinct from either; for, were light and fire the same thing, the heat would always increase in proportion to the light; the contrary to which is proved by experiment. For, when the Moon's rays are collected by a lens till their ducid point is 500 times more bright than the full moon, yet this great degree of brightness does not cause the least motion in the liquor of the mermometer, which will be fenfibly moved by the approach of the hand; and by the German stove we experience great heat, without the leaft 16 QUEST, Cpitic, and Philos answered, 1789.

leaft light; but light may be emitted by percuffion in wacue, by attrition, and by putrefaction. 'Is it not then probable, that light is the fluid the Almighty hath made choice of to put in and: accelerate the motion of the !! received an ery busy man dight and enter the control

And that it is the primer, milits of treation, is prear given the roomal are of Moles, as being estated the fishting, dec. Itig acualgarietere to image : gine, that the Sun and Stars are the causes of all light; they being only the greatest summatier; cand digher the concoditating egent of fire ; and ... thus, before the creation of them; it appears: very possible, that there might: be light, and the Molvies account directly true.

And to the same purpose are the answers of Messrs. Burrow, Glendenning, Jackjon, Millandy, and Virginus. Mr. Ward gives the answer from the Universal Hift. Vol. avil. agreeing with those by Mestes, Cairus, Lowry, and Needbam. Mr. J. Welon allo gave an ingenious en-

(wer. LXXXI. By Mr. Tho. Peol; of Barnfley

Although the procle of the land made Jehohauz king, in preference to his brother, yet that lays no foundation for inferring that he was the first-born. By the account we have it appears, that Jehbiakim was the elder, though he came fait to the throne; and I know of no text that fpeaks to the contrary.

And thus the answer is given by Mestre. Burrow, Cairus, Cavill, Crofier, Fidler, Harrifon, Jackson, Mellanby, Needbam, Rows, Virgilius,

Walton, Ward, and Winterbottom. .

LXXXII: Answered by Mr. Hex. Rowe.

The warm fluid particles exhaled from the lungs make the room warmer than the external air, and the fiery particles making their way through the glas, in endeavouring to restore the equilibrium of heat, leave the squeous ones; with which they were incorporated, behind upon the furface of the glais. 'And thus it is sniwered by Mefits. Burrow; Cairus, Cockrel, Cock, Harnifon, Fidler, Juckson, Mellanby, Needbam, Robarts, Swift, Virginus, Ward, and Winter bottom

LXXXIH. Answered by Mr. J. Walton; of Allendale.

If you hold the chain of a watch in your teeth, and stop your ears, the found, which is convey'd clong the bones to the tympanium, is heard very diffinetly. Now, the difagrouple feelation occasioned by the tharpening of a faw, Sec. causes fuch a tremulous motion uson that membrane, that the configuous bones are affected with it, and fo conveys the uneafy fensation to the nerves of the teeth, in such a manner as to cause a sympathetic affection. Wit. Burrew fays, it is affirmed by anatomific, that the nervo of the booth has a communication with the air, by a small pore opening at the top of the tooth in fome persons in their youth; but when the prime of life is path, the pore closes, the touth becomes more folid, and less affected by the founds in question. Mr. Ward fays, the teeth are fonerous, and therefore affected by, geating founds that are in unifon with them. And that chewing purflain, foriel, almonds, walnuts, or burnt bread, is a preventative against this complaint. And in much the same manner it is answered by Mr. J. Jaufon of Hutton. Rudby, and Meffre. Cairus, Recdham fram, Clare's Fluide, Rome, Fidler, LXXXIV. and Swift.

THE GENTLEMAN'S DIARY, Nº 49.

LYXXIV. Answered by Mr. Jackson, of Hutton-Rudby-School.

Flame proceeding from either unctuous or spirituous matter is of an electric nature, being more light and subtle than the common culicary flame; and we ter being a well-known conductor, it immediately flies up the fiream of water as you pour it in, which causes the flame to be more rapid.

N. B. As no firme can be fuffained without air, people happening to fet spirituous or unctuous matter on fire would do well to throw a damp cloth over the vessel containing it, for this will in kantly extinguish the

flame.

McGra. Burrow, Cairus, Harrison, Mellanby, Needbam, Roberts, Rowe, Walson, Ward, and Winterbettom, allo give like answers.

LXXXV. Answered by Mr. H Mellanby, of Stockton.

Without fand, the ir n becomes duchile on'y at and near its surface, whilf the heart remains so obdurate, especially in a thick piece, that is is not easily drawn out. But the utility of the sand is most conspicuous when a welding-heat is required; for here the metal must be reduced almost to a stuid, which could not be effected at the torge without sand. Mr. John Jacka says, a pound of iron being worked into nails, rolling the rod in sand, will make rather more than a pound of nails; but otherwise scarcely three-sourchs of one. And Messrs. Burrow, Cairus, Cock, Crosser, Fidler, Harrison, Jackson, Lewry, Needbam, Rebarts, Rows, Walson, Ward, and Wisterbottom, gave answers equally satisfactory.

LXXXVI. Answered by Mr. Wm. Harrison, of Wirksworth.

Sulphur is composed of vitriolic acid and p'alogiston; and vitriolic acid is a well known diffolving menstruum for iron: it is therefore no wonder

that hot iron should be wasted by the application of the sulphur.

Mr. Mellanby the proposer says, by the help of this operation wood is stained black. Take an old file, or other steel, and reduce as per question, which will run off in drops and calcine; and these drops must be received into water, to prevent their adhesion, that they may the more easily be pulverized, which is the next thing to be done; then dilute this with vinegar, and the liquid you now have will turn jet-black wood that has previously been stained with logwood-water. When dry, lay on a little black wax, and rub it well with a stannel cloth.

Ingenious answers were also given by Mestes. Burrow, Cairus, Cack, Fider, Jackson, Needbam, Rowe, Swift, Walton, Ward, and Winterbottom.

ÆNIGMATOLOGY.

Answers to the last year's Eniumas.

- 1. An illegitimate Child.
- 2. Eve. 3. A Licence.
- 4. A Jaw-bone.
- 5. Sleep.
- 6. A Hat.

- 7. An Apron. 8. A Boule.
- 9. A balance.
- 10, Hemp.
- 11. Wax.
- 12: Hadleys Quadrant.

3916 **33** 16. The High Road, or Turapike. 14. A Player. z. Rebet. Bagpipe. z. Ringwood. 3. Wedlock. 4. Sunday. 5. Firelock. The of the fackbase of the action GENERAL ANSWERS.

z. Stanzas Elegisev To the memory of Mr. Pour Fremen, late of Daventry, Northamptonfhire. By Mr. B. Wast.

Where to bis Gibes now ? Dis Fofts ? bit flafter of merriment, that were went to fat the Table of a Rose F Shake(peare. The spurious bard, impel'd by love of praise,

To make the world believe him great and wife, Each licence takes; each little art uffaye, And meanly fleore in hopes to fame to rife. But lince to death's infatiate justs a prey. Dear Freeman Acede in Earth's sold diesery worsh : To his lov'd mem'ry, M. fe, a tribute pay, · And give his worth to live beyond the somb. Wher, the the decent aprox m ght offend Some haughty forth, of classic knowledge vain; Bright Genius in the tradelmen hail'd a friend, And fmiling Hemour own'd him of her train. 'Twat his the peal of nature to provoke What time involved in though of curling (moke, Around the sense far the chearful bands In graver hours he gave the fapient few Proofs of true tafte and fentiments refit'd a Fide various authors he fage maxims drew. For much be read, and much settin'd in mind. "But, Gimmortel Pope ! thy othic fore; " Praught with the charms and energy of long, Was drom the cholock of the mental flore, And flow E with moving pathos from his conque.: " Snatch from his hand the balance and the rod," "Two thise to pen, and Franco's to recite, Who liv'd affects'd, "the noblest work of God ."

Like thine, his wit its lawful objects knew 1 To few in anger were its thafte apply de Save those to whom the bemorn wicath was due. And scribblers quasing insolent with pride.

By all who thought, great bard! thy judgment right.

Por true politiqueli, like a gunde.ne, gare, That wie i s proper latitude to know, And what but pedant, hypocrite, and knave, ... In gon' rous Freemant ound a ferious fue!

If heply (web bie indignation mov'd, "His honest lash if vice and fully fear'd ; He pr 2'd true merit, men of genius lov'd.

. And, they pa more, their memories rever d. An boueft men.

tt.

THE CONTREMENT MARKS, 11:49.
Witness, O Twillessham ! thy conscious shades, will A a
Where erft wie fab rice ftrong the epic lyre;
Note: And woo'd in fireign dishing th' Assign Maids.
While sportive Fancy stavid her aving of fire. 13
Those facred haunts, by veneration led,
With learn rapture Energian would explore
The paths his bard had trod erewhile to tread,
50 3241 And minio where Work was west to most belong to want to
But brighter Street milling to His viewe and property ta
ow tast Imposes and coming he yields his breather that the in the see that
- 3:45 abusawain world a long a lait adjess & A.
- And finds the regarder happenels in deather tact and way 16.
2. The Reverice By Mr. T. BRADBERRY, of Terling, Daughters of Eve, ye blooming force, No peace ber, sching begom knows
Daughters of Eve, we blooming fare No peace her sching bosom knows
To you my firains beloogs and a Date the authorites smilleng
Laft year I fung's thephore's cars, She feeks in vein for gim repofe,
His grief and all his wrongs That the rapight scale to weep.
You'll recoiled the worful tale, The happels delutive girk the rear.
How his Maria wed; house n'e. Some latent agree to find 'er
But ah ! not fo, might present, Two jews of apply her confeience
Her shame should not be specialist to was spage for the control of the con-
But Justice who with even Jeals And wound apen her mind.
Bach act and actor tries, and warq. Macondials from the feetly now
And Truth forbid to dide the tale, Can shearing thoughts infpire,
On Fame's swift subgritt flien : Grief nends honforth, care touds he :
Indeed the licence was proposed in To die hou fold de firence he [brow
The parchment feal'd and fign'd, Nay once, 'tis faid, the fami rope
Hats, apress trimm'd, thesta woody to appropriately include
air'd, which will be both to jour toursey, hepp.
When Strephon changed his mind so mad to he released with
You and me why! that section, thur, and unnappy mand, torsear
You afk me why? that question, But, ah! unhappy maid, torbear In charity forbear, [pray, So wrong a rand to take j.] Suffice it only now today;
To some the sector defining the sector Personal Colors of the
In turn fhe taftes defpaire For the Redesmer's fake,
3. A contemplation. By Me. J. Bu Range, of Boltonfield.
3. v сопстриман. Булам, дера кажж, от фоколлеіс.

As changing feafons wing along, Can in them all new pleaturer find. frown,

Nor licens'd baftard at his Mory" " Nor fear of bemp at his jaw-bont," Difturb his fleep at midnight hour. He, when the mornings flower rie, Can balance well the night and day, In conversation with the with, Or pipe and bottle with the gay." The filver moon, and fiall forfift, With telescope and quadrant find, c,

A . 36 16 W

The man whole conflictation affrong, And feel the giorious frene prepare And free from vexing cares his mind, For hobie thoughts the enlarged mind. With hand and but and boren clean. Or heart and confelence free from Nor flander's tengue not fortuhe's Agreeably eart view the frenen [load Or life, it et ty toillome road. Not only in his youthful prime, And while his powers continue firm : Ber when he fellsth" effed of time. And ree preparts him for the worm. Faithfiel dby hear wardeeninglove. From whence that fun will foom Whole finites whike endless joys Will all his damps and darknefs clear.

. 4. A Hymn to Friendship. By Mr. Jackson, of Hutten-Rudby.

Come, gentle friendflip, wave thy, Nor spron feen, may fear difarm, quings . Around my low but peaceful cot : Waft falfbood far, with all it a frings, And let contentment be my lot. Thou kind composes of all firife, Give reft, pour bleffings on my head, Propitious, give a loving suife, The licens'd partner of my bed; That the lov'd mem'ry of sach chaim, . When grinding jaw-bone's no-more Se' to thy feal that I was true,

And thew the road by comfort - chear'd. Thy ballam from the bottle pour. And weigh thy fweetness in the scale. Affift the feamen in that hour

When ropes and boltm and quadrant And when, with retrospective view, The affor thinks on actions paft : I hen charity thall ever laft.

5. Against Lying. By Mr. G. BRENTHALL.

Shameful as Eve! the lying songue They wolk deferve a waven rope, That takes a licence to do wsong! Than ope their jugus in fugh a cafe, Thoy'd better he of Auning race t Hats, Aprons, Bottles, jewels bright If theirs, when weigh'd, shey'd be Livers! repent and be forgiven, too light.

heard,

111

As-Hadles did a celescope : They cannot wing their way to blife a Which wicked actors needs must

For . barity's the roud to heaven.

6. The Cobler. By Mr. T. NIELD, of Hawarden.

. A bale-born cobins onto there was, Who'd fain for man of fririt pais; Without his battle wont to fwear He wou'd not work a fingle hair, And wing'd away his tools all flew, Win, bemp, 'nay bat and apron too. Then to the quadrant he'd repair, To whet his wit and drown his care And warm'd with liquor he'd relate " The licens'd foilles of the flate;

Ornike an after on the flage. Hold fliff his jum as froze with age ; He'd bakmee ftrages he'd mimic [leep Then leap, then on his hands be'd But now, alas! his pranks are o'er, In charity we'll fay no more: On funday eve, at close of day;

His friends they bore him hence

2. Reb.

away.

7. The Wedding. By Mr. J. Moore. As Inchion at ewe walk'd along the bighway, 6 Reb. 2. 16. Not with firebok, but begripes compleat, 5. Reb. 1. Reb. He met Charity Jawbone, the queen of May day, In firm bet, bempin aproxyct rest. \$5.4. 6 10. 7 ... He faid, pretty maiden, pray liften to me, You to fleep with in wedlock I crave; 2. Reb. 5. She reply'd, Sir, no hcenf'd bug-piper's I'll be, 3. Who's to bottles and glaffes a flave. S., 12. You mikake me, dear maiden, I'm not of that fedt, To tippling ar lying inclin'd, r. First weigh in the balance before you reject

A good offer ;---be modest and kind. In amorous chat flew the wing'd urchins dart, At Riviewed be gained the fair; And Hymer last funday well afted his pare,

4 Reb. 14. By feating the wish of the pair. Digitized by GOOGLE

11 . 27 111

8. The last Day. By Mr. J. STOXES jun. Terling.

Behold the great and a wefol day at First to the right he turns his smiling hand, from thand! Face I finns of grace; When an mankind before their judge And hails, with words of lave, those With facility likes of their trops the sow reign Come, bleffed soul! dwell with the Lord, fair word. God you love,

To raise the world from death t'attend. Your ways of che rity I new approve. See winged cherubs hasting theo' the But on the left, go'lt, shame, and skies, frice sad despair, [sentence hear:

To funmon all the feed of Eve to Will reign, while they their woful All thofe who Jeep in death the Down to thinfernal pit they're drove found shall hear,

found shall hear,

Before the great tribunal all appear.

The glorious judge ascends his splendid throse, [makes known; take

His pow'r and justice to the world A fingle drop, who bottles once did In equal bollonce every allow weighs, And every him and race of men Lord, grant I may for this great'da

furveys;
His eye, without a glaft; fees far That then thy love and favour I

wide, [him hide.] may share!

Nowher can rocks or mountains from May dwell with thee in bliss thro

Stead of a bas, his heatt's with glory endless days;

crown d [tound] And join with leints and angels in And sengeance, as an spron; girds him thy praise!

9. The vision of Heber. By Mr. T. BAKER, Nuneaton.

In thought remov'd from this delu- Sedate, yet chearful, like the beaver, five leat, four'd kind On heavinly wings the gentle Heber And lociable, he feeks the duteous To that bleft kingdom void of all And reads, to fliengthen and improve [afford his mind, works of grace. Where love and truth real happiness The books of knowledge, and the With joyous eager look he wish'd Sometimes when bees are in their 1. Thence: wex-nicells. His dearest riends, of late departed And countless stars in boundless e her But Low aftenish'd was his tender He takes his glofe, and j'y'd with cence ! wonder tells Sure he was dark to heav'nly inno The Pow'r that made them must be From him they flew, yet fost dames How just the thought! like Heber, with to be [perceive] nor kept might, Always to near him he could them Secure or licent'd, not by earthy He grembled, figh'd, and in his But by the Almighty fov'reign f. irit wept, [of Eve Deity, [delight, . [delight, . Conscious he'd finn'd like all the sons He fleens in peace, and wakens with Yet fireck with awe at the celeftial How wife are they who, like flay'd feene, [him en ice.] Heber, thum [produces mirth Nar weal h nor worldly charms could fh' intemprete bow! Due cheer Turvalk the devious road where of But fee to what extremes fome mortals run ! ... , . fof death. he'd been, Led by h'unthinking careless flaves In drunkenness they meet the j av-B 3

May all, whor hard the visiba welly in cohes more white then Phebe's furvey'd, [juclin'd, ... apren, then, ... [jhome, To lowe and resvenly, virtue he free from the helier's, ignominious That, when their good and ill are Judice thall crown with bills the [their fame. fairly weigh'd, . . [your find] louis of men... They may the balance in their fa Andhear's igladangeletrumget forth

20. On Advice. By Mrs. Asignit Wistersoffich

Man, felfish man, to vanity Ythind, Let Hymen's please a certain token Fully not reason sules his ficule Wildom in vain directs, his pandring Shall food , like trees, just grow as Each passion turns him with es-[hey chanting voice. But ah ! how bleff are they, and only Who reason's voiceand nature's laws ... obey to y was 7 [cooking, Who within bounds their appetites Nor drink too deep of pleasure's fomy wine! Gractacle or weslet, when by just Is but a partial and deceitful friend. Thole fores of care, that make the Like Eve deceled, like Samplon,

Give pain which aprav'd penfanta Not thus my Mule thall four upon luftend of healing, rankles the ofbilithe evings , 201 . [proifes fing, More than the maids the men of And feale empyrean heighte, but For rural bleffinge, duch aftais bath Whole, wirtus fleepe but bafenels is a'vig "Itiesvin. Power to thefero on ment in hopes of His funday, actions wicked are and Such licence j'oin'd to luch banignant Thour : pow'r,

Call for the duties of each fleeting Whole rule of right it, injure other Then, Ibmale, Rain 13 well as man 1. John mategora off conte

march to be to feel the men

flate :

[choice, Of hearts comented by the fast of love. - .: they's ainclined. The thought is baseful to a pious How needful then appears the genial fire . [defire.

Of fwest advice that theeles the lewd And by the the of tealen leads to fame. [from from, [ways attain'd, And thus the spotless virgin faves Who from the heights of innecence

thrown down [fighing groun. crown fecure, . far'er undure. The gloff and hettle sall'd to drown the tenfe,

guilt partake, . [awake ; At revel touts and bagnios oft fees. mean. This iokes.

La vain he drinks hisgless and cracks folks [many find, But because and Billes in Jacklob's tale The place duries woulded to your That bills mone flowe from a virtuous mind.

AREMERS COLDE PRIST ANIGMA. REBUSES, &c.

of any and my The Right Way. By The Hanwit.

As Thullibyleld Rohips; hande null of 1 per mountes aice to bievinte, a taute by water delitte [40 this l'alla pleatuse's giddy mage attempt With antic gefturge and alluting mien. ftion thun. WAYS retire, Curb wild fize patfion, inne deftrue-Hative the to folly ever bends, Li, holly's temple with discourfe , outene,

attenda, With hatte from her smooth flipp'ry While life's frail tenure, holds, let prudence reign ; [talents giv'a: True! pleifure feek, improve the By vistuous deeds the wish'd-for price

. you'll gain ; Deav'n. The paths of vistue are the paths to

Among

```
See the poor Chimney Iweeper in bigh read or Breet, the
  What a leat to his head, or a thoe to his feet;
   and still Or kiny thing round him but rage; and the still the contact
  "11.5 He's angious to carn him a moriel of bread :
                                                                                     THE WELL G.
   While rich drones werr foff clouthing are daintily fed.
           And their pelf les and rufts in their bagson and the contract of the contract 
  The answers Bu My . J. Bunnow of Boltonfield.
               Both early and later II puzzled thy pater the face of the
   over this softrace eniger's could be f
 " word Nor sould Tiv finised till at the tell-gate, " " and a second tive finishment
    can The Turipide man affeit for his fee. In W. This was a come of the fit
 TOOLS SO TO MILE HAMP FIRM BY MIT OF BRANTANIA COLORS
My deht Mile Fifter, Worldstream This is the sand to bear my did
  wone dr algorefs; I happinels : Things below
                                                                                         empty thew:
Ashbusandth part of Herr'n's high Holdswhat's fubitunital, mind no First mich the hope to blished; to Brenstl-blish with be your portion
   avaliving the established and sufficiel
                                                                  then. IT
In moragn alleifting virtue ancy you in joy and praise for evermore.
                                                                      talian to be a transfer to a d
      urg gn 🚉 🧺
5. An Association Mr. C. Willingen, late of Nottingham, By Vin Giraus.
Condole, ye Gente, who grace die- In him tach focial virtue did appear:
                                  int Pair.
     wan page,
                                                         No abstrace matters but he knew
With me let him whom deali's
                                                              the addition and v
      thetch'd of this flage, " So great his learning, to bring forth
Ingenious works of his appear no
                                                         to day.
     more and bard than I
Lucall the friends of truth his loss
                                                               knew more;
Kom was his judgment and his test. None more fincerely can his loss
                                                              deplore. Part of the
 ... Min elear,
6. The R. bufes andressed by Mrs. T. BARRE. On an advertisement of
   a book of aftrology. In which, fays the wonderful fortunesteller, it
  foretald that the fleet would be victorious on the glorious soth of
   July. It some he forgot to tell us, both the Admirals would be tried
   for cowardice.
By sciences o cult, says Dr. Green, Or did I bear the firehed in that
All that will happen in this life is
                                                                  fight.
                                                                                             | Was right ?
                                                          When Both victorious were, and you
Then teil me, learned Doctor flure
                                                          The French To Down long because
                                                          And we rejoic'd aloud, because
        YOU CAN,
Alir ? in westeck or a fingle man's
Am I an old bag piper of renown,
                                                          Says Jockson, that was ftrange,
OP Shalley teacher knows at Ring
                                                                but Doctor, fook fynur book.
15. Abriel town ? Latt 25
                                                          You must tell thefe, before I buy
                                1: 13 11-11
 3 , 3 , 70 A resolution. By Mr. JACKSON, of Hatton Ruddy, . . . . .
The thirt piper may drone, till Saw in one, for their wide for their
At Ringwood; well, who cares My time I'll employ, and more
Or loyers may join their two hearts !
                                                                  plea (ure enjoy, Google
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To put our nature on ;

Among my young flock in the Nerfredakne meed, atspeace we're On Sanlay's advice, and teach to Nor evil to any intend, Itill we die, be wife indeed, . . While namelokes and I puriue good be wife

For this is the ultimate fule." .. We happy thall be in the end. 8. 1st Sunday in Advent, the Collect, in verse, Mr. J. Rusher. Lord, we befeech thee, give us grace, That in the great and awful days That we may cast away, When he shall come again, The works of darkness, and em-Array'd in glosious majeffy brace To judge the fons of men : The goipel light to-day; We may to life immortal rife, Now in the time of lite, when we And join the heav'ely heft, Thro' him who reigns above the Believe thy bleffed Son Came down in great' flumility

d. 2nd. By the fame Gentleman.

With Thee and Holy Ghoft.

Bieffed Lord, who haft caus'd holy scriptures of truth. To be written as precepts for age and for youth, Grant that we may to hear, read, mark, learn, and digest, Their contents, and fo treasure them up in our breast, That by patience and comfort deriv'd from thy word. We may perfect our hope in Christ Jesus our Lord.

10. 2d Sunday. By the fame.

O Lord Jesu Christ! who, preceding thy birth, Didit fend a glad meffenger to us on earth, To make ready thy way in a wild barren land, By proclaiming the kingdom of heaven at hand: Grant, that these, who now act as thy-minifexs, may So likewife prepare and make ready thy way, By turning to e heart from its favourite luft, And conducting the feet in the paths of the just; That when thou thek come to take judgment around, We may an acceptable people be found; Who livest and reighest our Siviour and friend, With Father and Spirit, one God without end.

New Enignas to be answered wat Year. I. MINIGMA 466. By Mr. G. BRENTHALL.

Dis ian page ne'er brought to light. Him often very good and kind. The offseting of a nobler knight, Recorded long in ancient flory A. foch he : , must I be iquire ; Moses and Arran knew his glory. White he is il writhing, I'm highen, The regient Job his name holds forth He's fell'n I'm 10 con empt decreed, And to his friends proclaims his Still him for valor few exceed. He frigh and low bows down like While Scripture never speaks of me, llaves And lends by hundreds to their I'm beat and tred to dust spain

worth 3

graves, But that none more defo f'd can be. and yet the poor and helpless find By honest harmless sons of men.

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In darkness I my lastic hew. By that you'll, find my name; The T've my fodging very low, I'm mounted up to fame,

To conflicte inv frame Both fleif and blood I claim: And ere complete I'm made A man muff lend his aid ; And then affign the caufe To the Almighty's laws; In infancy you grew, But fuch I never knew; Yet you will own, I'm fure, When grown to years mature, Women's good names to fical, Soch acts Inc'er conceat; The tidings foon are known Abroad throughout the town: When on this flage of life, My lot's to take a wife.

Where Sylvan fawns and dryades iln James's park I have been fcen

And gentle Zephrys fan the grove; Coverts, where owls pre aging firay, And philomel pours forth her lay ; I had my origin in part, Yet am indebted to man's art. Finish'd, in public Fappear Naked, or gold and h ver wear. Whennight her fablecuttain's found, And Somnus shakes his poppies round.

Till orient Sol peeps forth I stand. Your humble fervant at command

The trueff, pureft gees we find Illuffrious in night; And I, tho on the ground reclin'd, Seem as a ftar of light.

3. Antona 468, by Mr. WM. CRANE, of Quadring.

The crofs fates fo contrive. I cannot her futvive. Tho' I am fill alive. Honour I'm known to give, In turn I none receive; But in requital yield, Nay often am compell'd For peace to fue and crawe. Tho' fometimes can't it have : Thus am I deem'd a flave. Tho' virtue's guiding flar Direct my fleps whilft here, I have no right to prove . The joys of realms above : Nay, it is paft a doubt, I shall be thence shut out.

4. ÆNIGMA 469, by Mr. J. MOORE.

Attend our gracious King and

Queen; With beggars craving at your door Your kind compassion to the pour ; The belies and beaux I oft befriend, For aid my kind affifiance lend. Fly, rovers, fleadinels purfue, And wonders I can bring to view; You at my nod the hour may know, The height of tow'rs to you I flew. But hulh, enough, I write too clear.

.! So weit your answer till next year.

4. Ensema 470, by Mr. T. Bradserry.

On you, ye Gents, on you, ye fair, fOr fure it would be very hard, We often wait, a faithful pair; Twin-born; sife alike in hue, In make, in hape, and goodness too. Behold you blooming virgin fair Agrees to end her fireherd's care: Array'd in white, on her we wait, Attend her to the alter gate; But when the prick begins to pray We forn are ordered off, away; And when the folema knot is ty'd, Again embrace the lovely bride;

Since we of beauty are the guard; Lo, rigid winter's chilling form On us beflows a rougher form. Tho fir uge in make, firanger our ing blood : Nails, bones and flesh, nay ftream-And with fuch monitrous ravining

curif. So full of food we often burft. We then are out of favour grown. To fate confign'd, to ruin thrown. 6. Enig. 471, aniwaring last Year's, by Mr. T. Phare.

In days of yore, ere Bos an upren Witnest a Georgium fides lately fought, [ipoke as he thought, When truth prevailed and man With meen latellites circling all When no feductive helbred comming In Boorshire, a glimmering fint of [human hearts, With golden enings, had play'd on Nor licence giv'a for almble tongues [caule : and jaws To bite, and venom frit, without a I was unknown. Curs'd Cain first | Mong votaries whose hearts are · gave me birth ; febe earth.

My beneful genius foon Ipread o'er Judas, whom bempen cord fufpended high,

And Samion's jilt, when he wicep My Ways well knew; to deep they As wedlock, and fine lace will fcan 7 laid their plan, No telefeopie eye their drift could

face, But weigh'd in feeler I'm found in

found: Taround k ' Phorning lights" Whole confeious bluftings faun the At from the bottle flows the generout wine, fosts defign,

When I was kind, so flows my · blick us mine.

As Macwith bagbipes thakes us play our gambols.

[did lie, And Ringwood beer when on our Sunday rambles [pleafe a lady And fore of Mars to have their fire-

locks ready; [light me, Religion's has see hides my happerd Se double plots continually de-[min's place. For which a pen like Jackfon's may endite me,

Though shades Tartarean scarcely can affright me.

7. ENIGMA 472, by Mr. Wm. Bovzey of Leylands .

In earth's dark womb I ages lay | The Ledice fair my ofeful aid moft [reveal'd; conceal'd, 41 1.m. W. undergo, maker's hand, it. it flandi. fathions be? frity.

know, Till fearthing men my noble wit And for their fakes I circling jour-But mark what harefnips I muft Bet what's most ftrange, and yet 'tis trueyou'll find, Before I can to just perfection grows That I'm most uleful when I am most Yet when I'am freed from of the When hardy failors fput the briny WEFE. My use is known in evity pohin's I then am found a curious useful Without my aid where would all I lead them on to India's golden ftore, Instive thore. Quite loft in dull and dask obscu- And bring them back fafe to their

8. ÆNIGMA 473, by Mr. J. JAGHSON, of Huston-Rudby. Can angels grant relief ! eawheav'n | " That all Was foft," But after this flow'd fire? infoire ! Can mufic charm this weak unbal- That I was fait for, and the Saviour Can all the visions of a golden dream Sacred was he whose blood falva-Enliven this flow dull and uncouth The meanest subject; forethat can't Porhaps defign'd to teach humility. Broughe I mat immortatity to view? I once an angel faw, believe my word. Eve, reaching to the fruit displack And in his hand a feirful glieftering and eat, [from her feat | Found, Thell. " Bareh feit the wound, und marure Aghaft Tauffne trembled, ffumbles. " Sighing thro' all her works gave What have I done, said Is no man figus of wee

· you know brought. ven this flow dull and uncouth tion wrought [ule of me ? theme? [be true] For lost manhitid. Bar where the could tell:

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THE GENTLEMAN'S DIARY, Nº 49. 27
Nor what & few, kill here's op,d And once preferv'd pure Vefta's
  dabis syen . . [vaft fungeine.] . . chaftier.
And let him fee his theme with Now our shafe rightly, and just ver-
Ippropring Punic wars made gionets . . . dick givb;
fig. I was advanced to the meteins.
    d. Hnigha 474, by Mr. Wm. HARRISON, of Wirksworth.
Ert man was greated and breath'd | To speak the whole truth its not pro-
  wital gir: [and fair t] perly mint. .... [borrow,
I boah my existence, am blooming. The rainent I wear I do only it
The rude strolling rapours oft in-
juse my beauty. I duy: to my forcew. for mankind,
I always am found in the way of my My best known ambition's the good
New thould interlopers deform my Dispensing my favors to all but the
fignes charms, fgreat slarms; hlind. ... fignest, Who by their intrufions oft goule I often befriend you when no friend
 Yet thele my misfortages I quickly Or you wou'd be, filled with terror
                       [recover; and fear. her sys
     get over,
 And then all my grandeur segain I Wherefore of my finthen you of times
Altho! I am deck'd fo gallant and enquire [fhip defire
                                     And for mygdod fervies, my friend-
    fine,
        10. ENIGMA 475, by Mr. J. STAFFORD, of Bingham.
 Let Rodney or Hood bouft the deeds | Who there at his case free from dan-
      they have done, felet have won :
                                            ger tras laid,
                                       With his tail, like a ferpent, turn'd
 What fleets they have taken or bat-
 Or poets, relate, and with confidence
                                        under his head !
     Seeffer in bereite eine feeffet
                                       But in keen, genear, is he that be-
 What numbers by Ajax and Hescules
                                        r: fore wedere inter . Itemper,
 I may fafely aver, and you'll own
                                       The field, I'm oblig'd oft to lotten his
    te is truch. [ever they flow !
                                       Left he in bindrafte thould feize more
                                            of the cotte facickly lubdue,
 I've cut off more by thousands than
 For I knock down a hundred per-
                                       Than he sharply can donquer or [
                                        And tears from the eyes of my
   haps the first stroke,
 And quick the dispatch, when my
                                            friend should enform
   . rate they provoke:
                                        Now fart not, ye fair, at the tale
 But ere vey are fitty prepared for
                                            Lhame told, [and to old;
                          in white; Since familiar I am both to young
       the fight,
 By a magical touch they array d'are Nay, mostly the gents on my aid do
 And then from a care, dark as Cir-
                                        on depend to the con-
       rha of old,
                            and bold. Ere they're fitly accounted to vifit a
  By the bead I pull out a flout here friends
   Tr. ÆNTGMA 476, by Mr. T NIZLD, of Hawarden.
  Aid me, ye heav n-born Muses all Where bubbling fountains in mean-
  divine, direct seil o'er my Gn. blifett plain, all nature smiling pame, [Ame ] And let fost sumbre they in ey'zy Egently wanter by my parents! side, Let my fite characters reil o'er my On. blifett plain, all nature smiling pame, [Ame ] reand [ctown'd,
```

And take my mast se immores, My parents joy, my parents within Where the fond thepherd and his Till fatal is la furgriz's, awoke to In wanton gambols frisk it o er the The best of parents and the fairest

A bold intruder view'd my growing | There I, alis ! aur fore'd to hide charms, This arms, And fwiftly caught my parent in Here I'm produc'd; but, dreadfui to relate ! Cruel fate Soon cut and mangled, doom'd by To some clear stream, where Sylvia's watchful eye [with joy; Observes my motion, sees me move Or to some cave, dark, horrid and prefound. around, Where filence ewest he arching walls Whose gloomy path no human foot can tread:

my head, [gen'rous hand) lill fome commander (thank his Brings me to light, and fo by his command, furprize Like Endor's witch swoke, you with See armies foring before your wandring eyes., ftrain by train, Taught by his pow'r, I lead forth And paint dark horroro'er the lightsome plain.

Enough is faid, I now too plain

Farewell, O Mules, till another

Sear.

appear.

12. ÆNIGMA 477, by Mr. S. Oxter, of Walfingham.

In a dark cavern hid from day, Where blithsome Sol ne'er darts his And his terrific rage is quell'd; Dragging him from his praceful rest, A d ff rent form appears to fight, Sad tortures to endure. With hardships great and trials dire, As from the after of my fire, I into being role. Thro' fire ordeal doom'd to go, Where flames appear, and whirl-[And by his aid make Flora yield, Tofuffertenfo'd woes. windsblow, How hard must be my fa e!

At length his anger is repell'd. My parent lay feete ; [ray, Then hope diffels all fear.
Till man didtear his mother's breatt, For when compleat and finish'd quite My proper name I bear, frown, With care I'm fent firsight out of And am compell'd to ferve the clown. The ruffic v.g'rous fwain : Undaunted with him take the field, Fall profirate on the plain.

Where nature's matchless hue

A tyrant reigns amid the gloom, Another hint, to end my tale, Whose fury seals my haples doom, I slay whole thousands in the va'e, At his command, his vallals round, A variegated fcene displays, With blows relentless shake the On which we may with wonder gaze. Oh | dreadful to relate! [ground; So, genile barda, adieu. 13. ÆNIGMA 478, by Mrs. ABIGAIL WINTERBOTTOM. Ye gents, of mind elate, attend Is ever deem'd the best; then, rebels, our tale, [nor rail . [peace. Divest yourselves of pride and spicen, To peter kingdoms, and disturb the At others, who your seniors are in What government on earth with birth; Ither earth. ORISCOU AM ; fruling eye, For we, I ke you, are not from mo- King, Lords, and Commons, ore the Some fay that Ezra was our earthly Checking each other, if in judgment fire, mer fire : fifrong wreng. And foine fay Dadmus with a wer- Bquel triumvirate, not one too But be that as it will, our use is For th'other two. But flay, my knowa Ithrone. Mare: nor rove prove. From Mendicus to George upon the Beyone the limits thou eanth justiy Our eldeft brother often lends the Werife and fall byrrule, gradation, fihe best. mean. vene. And commonly that rule is found And felicum any one dares inter-Hence then we fee priority in things, Tho' we are brothers feven of one As well as he'rs of land and choice: , mont er, of kings, Yet two of us are thorter than the

We are sometimes most folemn and Their feveral feelings speak but by [tion have; mooft grave. Anon, a quick and sprightly mo It heaven above, by happy spirite Now high, now low, we gently fall in well below our virtues are abus'd. and rife. And feed the ravish'd foul with fweet The lark on high, when rapture And finners, black with guilt, in fwells his breaft, [the neft; In dark nefs Tartarine as tenfold So fweetly chants his matins o'er The love-lorn fwain, the brauteous We then shall be remov'd to realms blooming maid.

our sid. Tiurprize When time shall end, and earth to chaos turn, [fortow mourn, night,

of light.

14. ÆNIGMA 479, by Mr. T BARER, of Non-exten.

spleenish elf, Debale another to advance mylelf? Ambitious friends that devious proviace share.

I'm to enlive and exalt the fair. Or fex, or age, to favor I'm inclin'd, Were I extinct, but few wou'd com-

fort find :

Yet I of various ille am oft accus'd Because weak man indulgency milus'd;

Still I'm as gentle as returning Idows ring, fpring, And when with melody the mea-I sport the doves, I edenize the wood.

Felicitating like the primal good. But tempers, like the climate, diff'-. sent are, war Among the Turks I oft occasion

And even here rebellion I excite, Still give the calmest Christian foul delight;

Yot so contrarily I act in life. I in religion cause the motil of Fextremes. Still I'm a mean between two known And sid the poet in his noblest

theme, Saft am'irus raptures I can well impart.

When fortune frowns, shall I, no Andin each portrait boaft the height of art. Tinow & I fly dark Zembla and her tenfold Nor lift the burning fands of Borneo. Refounds the fenate with retortive thunder! Twith wonder : Sudden confusion fills the half But foon to order ev'ry one returns:

And when no meteor in the fpirit f proclaim, Congenial notes Britannia's might

And envious nations fear her rifing fame: So I'm oft dreaded. Sages fay from

A chief shall rife in midnight secrefy,

Who, cruel tyrant, will no mortal fpare: horror stare. Armies shall fall and kings with Yet from Eliza's chronicles tis

known, When superb Philip made the ocean groan, fought, He for defenfive Britons bravely And peaceful laurels for their temples wrought;

Then roar'd the tempes, no kind haed could fage, Egrave. Castilia's flow'r from an untimely But for my name: by heav'ns pecu-

har care. pair. I hold the Gordion of the happiest

PRIZE ÆNIGMA, by Mr. B. WEST.

To whom, Eumence | shall the weetched go, To tell the fall, myfterious tale of wood With each humane each tender feelingi blefs'd. . 'Tis thing to here, and pity the diffrafs'd. Time was; bue now, shall that sime is o'er, For youthful vignot flown, teturns no more !

When fame proclaim'd the triumphs of my reign, And vanquish'd heroes languish'd in my train, Amongst the captive throng a youth was found, Not more for velour than for truth rentumble; Who, deeply wounded; fail'y figh'd his finart, And fu'd for pity with the foltest arts. Nor fu'd in vam.---My hand a balm apply'd, Which bede his fufferings and his feats lublide. Great fouls with kindnels treat the worthy brave Nor more delight to conquer than to fave. Thus I by one kind deed a name obtain'd. Which fifty cruel vict'ries ne'er had gain'd. Now, all my fond defire of conquest o'er, The spotless garb of innocence I wore; While munc, floating on the morning gales, Made brithe the groves, and harmoniz'd the vales. To there his fortune, and those sweets to know, Which but from virtue's facred fountain flow; From these once plessing scenes 'twas mine to roam. With my lov'd captive to his distant home. Nearthy warm shores, O China! where the fair, And Iwains obsequious, oft in bands repair; The group affembled at an eastern treat, All smil's me welcome to his native feat. Here, wing'd with blife, the minutes sped their flight. Love cheer'd the day, and pleasure crown'd the night; Attendant bleffings grow; the scene was peace, And years increasing law our joys increase,

At length, with affect looking dread difmay, A ruthlefs victor, whose tyrannic (way, A ruthless victor, whose tyrannic (way, Spread terrour, and with havouk firew'd'thy plains a Against my captive; arm'd wish vengesul rage, Which pray re and tears were bootlets to assuge. He tell !—Ah me! it wings my foot to tell, And with him every earthly comfort fell!

To gayer robes succeeds the guise of woe, And mem'ry gives the tide of grief to flow. So oft the morn, o'ercast with tempests, lours And table clouds discharge the copious show'rs;

From that event commenced my wretched fiste,
To that I owe my fad reverse of fate?
Better for me perchance it might have been
Since been to see it, had I fooner sees;
Then, healy fooner fam'd here, kind as brave,
Had mild my strittless grief the Lethe's wave;
But esed, dessate, I m doomed to moure
Past joys, which sever, never must return.
Where with the dress of mighty kings, hath told;
Tou'll find my name, and picus acts circili d.
Then, O ye lous of Britain's favour'd zone!

Whole eyes can melt for fuff rings not your own;

To me the meed of fost compession deal,

And mitigate the woes ye re er can feel,

1.RESUS.

I. REBUS; A CHARADE, by The HERMIT.

On my whole fedetely pender, Human life you'll juftly fean ; Note the emblem, paule with won-Britain's Goddess ever glorious, On my first is often converd; By my second, who victorious Spread her triumphe all arounds . What a fleeting fhadow's man! [der: N. B. These Character, or Rebufes after the French fashion, must be made on neuns substantive of two syllables, each of which must also be a name.

ឆ្នាំទាស់ ១១១១១១៩ 2. REBUS, by Mr. T. BAKER.

A word oft prefix'd to parties or co. From thele, when connected, will What fome by much time and experience hew. [known. rience hew. Whate'en to the wifeft is feldom well

3. REBUS, A CHARADE, by Mr. W. CRANE.

Conducive first, tis known'that thy A useful measure is my next, well produce.

[gen'ral use, known

When right prepared, is found of Toev'ry one in country and in town.

The healing balm it yields, what can surpass?

[als, cords prove, from above, Yet many a man it turns into an I've been compared to kingdoms

4. Reaus, by Mr. J. Wand, of Hinckley.

A diffruftful difciple, and trade that's well known. Name a conftant Diarian, of fame and renown.

5. RIBUS, A CHARADE, by Mr. R. G. WEST, Adderbury. My first in the street in: well knows If they no distemper or accident to abide, [hopfe fide; have ; [weites unto you, In order to keep quick secure your When a friend or acquaintance e'er My next very often brings men to Then my mbole, he affur'd, is more the grave,

6. REBUS, by Mr. J. JACKA, of Parrangablue.

My firft is what lords hold at least once a year, In my fecond perhaps you thro' danger may fleer; My whole's full oft long'd for by black, brown, and fair.

7. A CHARADE, by Mr. J. RUSHER, of Charlbury.

My first was purchas'd when 'twas My subole you'll think a prodigy, For it has eves and cannot fee, leut. E'en with the clearest glasses; And into fultry climates fent, Yet is an handy partner reckon'd, For peaching priests and frines; To flip bereath my first and second, My nest, the enterprizing Cook, With Sword in hard diffinguish'd, By many lade and latter. And fent to his employers [100kgl.

LXXXVII.

32 Quest. Critical and Philosophical, 1789.

LXXXVII. By Mr. J. Burrow, of Bolton-field.

Of what use were Laban's gods, Gen. xxxi. 30. and why so called, as it appears that he feared the God of Abraham and Isaac'

LXXXVIII. By Mr. J. Carius of Monkton.

How is that passage in 2 Kings viii. 26. consident with 2 Chron. xxii. 2. when, according to the farmer, Ahazrah was 22 years old when he began to reign; but, according to the latter, he would be 42?

LXXXIX. By Mr. J. Burreso.

What kind of fruit was it that Amos gathered, Amos vii. 14.? and to what use was it applied?

XC. By Mr. J. Needbam, of Hinckley.

Why is faow of the pureft white, fince it is nothing but water congealed into flakes?

XCI. By Mr. David Rebarts, of St. Colemb.

Why do those animals that seed on vegetables perspire so much: and those of the carnivorous kind sweat so little? A fox hunted almost to death never sweats.

XCII. By Mr. Wm, Swift, of Stow.

Why do meal, after, and other bodies of the like mature, weigh heawier when put close together in the bushel, than when not?

XCIII. By Mr. John Winterbottom, of Bailsworth-School, near Manchester.

What is the cause of that cloudy moisture, observable on the outside of glasses and other vessels, when any cold liquor is poured into them?

XCIV. By Virgilius, of Aluwick.

Required a reason why a bird's fountain does not eject more water than fills the trough, tho the water is above it?

XCV. By Mr. H. Mellanby, of Stockton upon Tees.

In glueing any kind of wood, if you rub the surfaces intended for contact with a piece of candle, previous to laying on the glue, the joint will fet almost instantaneously: whereas, it is well known, that several hours are required in the common way. The mere knowledge of the fact must be useful to joiners, and the cause pleasing to those who would enquire further into the matter. Now, such to oblige a solution is demanded?

XCVI. By Mr John Jackson, of Hutton-Rudby.

If you take a large fea-she l, in form of a wilk, and put the hollow to your ear, you will hear a noise resembling that of the sea roaring: what is the resson of this?

XCVII. Also by Mr. Jackson.

It is known that a common concave mirror will magnify an object viewed in it which will appear exect or upright; but, if you take a bright liver (poon, the concave part of which may be faid to act as a mirror, it is not only diminish an object view'd in it, but will also invert it:

y is this to be accounted for?

ANSWERS.

Answers to the Questions proposed last year.

1. Qgzst. Age Malmandby Odezive of at of dear Bath.

· Substitute attages states of the state and gray, and the given equations beromo sites is 12-20-20, and 20-1 and the gd and ad afishers added together give as 1-29-16-ic, which Subtracted from 12+212+22=a2, putting 12=r, gives r=which is therefore given, and by taking ar from 12+22=4+1, we obtain the square of -2 - b+c-2r=25, or sesting, bot + 1 - 55 consequently = $\frac{51+5}{2}$ = 18 and $\frac{51-5}{2}$ = 13, at 10 29 = 2xy = c = 2 =364, being taken from the equation x2+32=6=400, leaves the quare of y-x=16, consequently y-x=4, y=16, and x=12.

Ingenious answers were also given by Mess. T. Baker, J. Bennet, Burrow, Cairus, Cavill, Cock, Crofier, Cunlife, Dalton, Farey, Glen-denging, G. H., J. Hartley, Howard, Jackson, Kilburn, Lowrence, Lowy, Majon, Memoniensis, P. Nicholfon, A Olivir, Plasted, Rowe, Saul, Taffa, Jee Sherwin, Thorpe, Virgilius, Vunn, White, and

2. Quest. 584, answered by Mr. Jossen Louis of Sheffield.

Youle.

Put the fide of the faggre in inches, and confequently the number of faillings on each fide =x, then x2 =she area in inches, and 4x== the perimeter = the fum offered in shillings; then, by the question, as 6272640 inches in one acre : 1000 fh. price per acre :: x2 1 4x 1: x: 4, wherefore == 25090,56, the area = acre 100.362, and the price offered = f. 501& sait &

And thus, pearly, is the aniwer given by Meffre. Baker, Bennet, Burrow, Cavill, Cook, Cove, Croffer, Castiffe, Datson, Deacon, Far-y, Glendenning, Gregory, Harris, Hawley, Hewitt, Howard, Jackson, Kilburne, Kingy Majan, Michelfon, Oliver, Paull, Rowe, Saul, Taylor, Virgilius, Vunn, and White.

9. Questo 585; answered by Mr. T. Mason, of Stokeller.

Let the triangle ABC represent the given field rightangled at B, and AE, CD, the required perpendiculars meeting the fides CB, AB, produced in E and A. D. Now, by Ebelid, 6. S. thele triangles ABE, DBC, are fimilar; therefore, as CD: AE=; CD :: BC : BB= 3BGm henon' by Bbcl 6: r. the triangle ABE= ABC, and ACE=4ABC; hence AC2= AE. CD=3CD2, or AC=CD4/3, and AE. AC= 3CD2 /3=8 times the given triangle ABC; which gives CD= chained links 69.302, and AEmig ch. 95.906.

The same answered by Mr. J. CAVILL, of Beighton.

The ratio of BD to AB must by similar triangles be the same as that of CD: AE, which is given by the question as 1:3; confequently CB²—AB. BD—3BD³, and AC²—AB. AD—12BD², or CB²: AC²::3:12::1:4, confequently AC == 2CB, and the right-angled triangle ABC is half an equilateral one, but the triangle ACD being = 4 of the given one ABC must be=300 poles; but the fine of 60² = .86602 = the area of half an equilateral \(\Delta_1 \), whose side is unity; therefore, as .36602: 1::300:346.527794= CD², hence CD=poles 18.615, and AE=55.845, the length of the two perpendiculars required.

The same otherwise, by Mr. ADAM OLIVER, of Alawick.

Confir. Take Ab: bd in the given ratio of the perpendiculars; draw be perpendicular to Ad, cutting a femi-circle described on the diameter Ad in e; take AB: Ab:: the side of a square the given area: the side of the square the given area of the triangle Abe; and erect BC perpendicular to AB to meet As preduced in C, so shall ABC be the triangle required. For draw the perpendiculars AE, CD; then, by similar triangles and parallel lines, AE: CD:: Ab: bd; and similar triangles are as the squares of their homologous sides; therefore, &c.

Ingenious answers were also given by Mestrs. Bennet, Burrow, Cock, Cunl. ffe, Dalton, Farsy, Glendenning, Hartley, Haward, Jackson, Kiburn, King, Nicholson, Paul, Rows, Soul, Taffe, Toylor, Vunn,

White, and Youle.

4. Quest. 586, answered by Mr. Alex. Rows.

Let == 13536 cubic inches in 48 ale gallons, b=12 inches, c= .9854, and x= the staff's length or cylinder's depth. Then, per quest we have these expressions for the square of the cylinder's diameter, vis. x2 x 12, and x, which equated give x2 2 265

hence x inches 29.96489, and the diameter == 23.98244 required.

The fame answered by Mr. PETER NICHOLSON, of Brownlow.

Put a the folidity in inches, b=12, and x=the length of the \$2.60 or depth of the cylinder; now, by quest, the top end of the \$3.60 will fall one foot b low that of the cylinder, and the depth of the cylinder below the trp end of the staff=x=b, this wish the diameter of the cylinder and staff make a right angled triangle; therefore the diameter's square =x2 x=b|2=2bx=b2, which multipled into .7854×x=the solidity of the cylinder =.7854× oz2=b2,=a, reduced x=29.965 nearly, whence the diameter = 3.982.

Answers were also given by Mesirs. Baker, Bennet, Burrew, Cavill, Cock, Cockrell, Cove, Croster, Cunlisse, Balton, Farey, Glendenning, Gregory, Harris, Hartley, Hewitt, Howard, Jackson, Kiburn, King, Lowny, Mason, Ukwer, Paul, Saul, Taylor, Virgilius, White, Youle, and Joe Sherum.

5. Quest. 587, answered by Mr. Joseph Saul.

Put w, x, y, and x, for the four fides; then, by the question, $w+\frac{x+y+z}{3}=48$, $x+\frac{w+y+z}{5}=48$, $y+\frac{w+x+z}{7}=48$, and $x+\frac{x+y+z}{9}=48$, or 3w+x+y+z=144, 5x+w+y+z=240, 3x+x+z=336, 3x+x+y+z=3523; the feveral differences between the first of these equations and each of the rest being taken and transposed, &cc. give $x=\frac{xy}{2}+24$, $y=\frac{xy}{3}+32$, $x=\frac{xy}{4}+36$, and $3w+x+y+z=\frac{49w}{12}+92=144$, wherefore $3x+y+z=\frac{49w}{12}+32=144$, wherefore $3x+y+z=\frac{49w}{12}+32=144$. Now the area will be found the greatest when the right angle is included between the longest and shortest fides, and 3x+z=3 acres, 1 rood, and 8 perches, fere.

The fame answered by Mr. THO. WHITE.

By the quest, the 4 sides are $\frac{13\times48}{49}$, $\frac{31\times48}{49}$, $\frac{37\times48}{49}$ and $\frac{40\times48}{49}$ or they are as 13, 31, 37, and 40. Now, that arrangement of the sides, which a proaches the nearest to be inscribed in a circle when one angle is right must be the required arrangement. We have then these fix combinations of the sides taken in pairs to contain the right angle, wiz. 13, 31; 13, 37; 13, 40; 31, 40; and 37, 40; and, lastly, 31; 37; and of these the 4th and 5th are impossible; but the third pair, viz. 13 and 40, being made to contain the right angle, howsoever the remaining sides 31 and 37 are arranged, will make the trapezium a maximum.

It was also ingeniously answered by Messes. Bennet, Burrow, Cavill, Dalson, Glendenning, Hartley, Howard, Jackson, Masses, Nicholson, Oliver, Rowe, Taylor, and Youle.

6. Quest. 588, answered by Tasso, of Briftol.

Affume $2\hat{y}=\hat{x}$; then supposing \hat{y} co stant $\hat{y}=\hat{x}$, and by subfitution $a^2x^2\hat{y}+byz^2\hat{y}=c^2\hat{x}$, consequently $\frac{c^2\hat{y}}{z^2}=a^2\hat{y}+b\hat{y}$ the fluents give $-\frac{c^2}{\pi}=a^2y+\frac{1}{2}by^2=-\frac{c^2\hat{y}}{\hat{x}}$, or $\hat{x}=-\frac{c^2\hat{y}}{a^2y+\frac{1}{2}by^2}=\frac{c^2}{a^2}\times\frac{b\hat{y}}{2a^2+by}$, the fluents are $x=\frac{c^2}{a^2}\times by$. I. of $\frac{2a^2+by}{by}$, where, when x=0, y is infinite, and when y=0, x is infinite; therefore

the infinite values of x and y are the alymptotes of the curve towhich the given equation belongs.

The same answered by Mr. John Goven, of Kendal. Here y is to be supposed to flow uniformly, or y constant, and multiplying the equation by $\frac{\dot{y}}{\dot{x}^2}$, we have $a^2\dot{y} + by\dot{y} = \frac{c^2\dot{y}}{\dot{x}^2}$, and by taking the fluent we have $a^2y + \frac{1}{2}byy = \frac{c^2\dot{y}}{\dot{x}}$, or $\dot{x} = -\frac{c^2\dot{y}}{a^2y + \frac{1}{2}byy}$, and the fluent gives $x = \frac{c^2}{a^2} \times \text{hyp. 1. of } \frac{2a^2 + by}{by}$.

And in much the same manner is the answer given by Mr. J. Cunliffe, of Bolton, and Mr. T. White. Mr. A. Oliver gives the answer by series. But the quest, admits of a different answer without series, by considering that the given equation also results from the suxion of $a^2y + \frac{1}{2}by^2 = d^3 - \frac{c^2j}{x}$ by making j constant, where $d^3 = a$ any constant quantity whatever, hence finding the value of x and taking the fluents $x = \frac{c^2b}{g} \times \text{hyp. 1. of } \frac{g+f+y}{g-f-y}$; $\sqrt{\frac{2d^3b+a^4}{b^2}}$ being $a^2 = f$. Here y may be a = 0, and therefore the curve outs

=g, and $\frac{a^2}{b}$ =f. Here y may be=0, and therefore the curve outs its absciss. But if d^3 =0, the fluent here fails, and the value of x must be found as in the two preceding ingenious answers.

7. QUEST. 589, answered by Mr. ALEX. Rows.

Put a=the tang. of 30°, b=that of 50°, x and t=the fine and tangent of the latitude or gnomon's height in an horizontal dial; then, by fpherics, as rad. 1:x:a:a:ax=the tang. of the diffance of the ten o'clock hour line from the meridian, the tangent of the fum of this diffance and the latitude $=\frac{t+ax}{1-axt}=b$, per queft. where

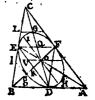
 $t = \frac{x}{\sqrt{1-x^2}}$, and this equation is most easily resolved by trial,

whence o= .54009 the fine of 322 41' the file's height required.

An thus t is answered by Mr. John Bennes, of Preesall, and Mr. T. White.

8. Quest. 590, answered by John Howard.

By Simpson's Geometry, p. 2011 the triangle EFDwill be the greatest that can be described in the ellipsis DEGF when the tangents AB, AC, BC, are bisected in the points of contact D, F, E; and it is proved, by writers on conics, that the lines CD, BF, AB, will all pass thro O the centre of the ellipsis, and since these lines bised the sides of the triangle ABC, they are by the known property of the triangle all divided



at @ into fegments which are in the ratio of 2:1; therefore GO= DO-half CO, =2QO by fim. A's, and GC=GO=OD, the triangle EFD=EBD=FDA=CEF=one-fourth of ABC. And fince all triangles, whose fides are bisected by the same given inscribed ellipfis are equal in area, in order to determine the limits of the angle, the area of the triangle DEF may be supposed to retain its value == a; let x. fine of DQF, OD=m, VO=n, s and c=fine and cofine # DFQ , r2=the fum of the squares of the semi-axes; then, per ellipfis; OD2: VO2:: DQ. QG $= \frac{1}{4}$ OD2: QF2 $= \frac{1}{4}$ VO2 $= \frac{3^{n-1}}{4}$ $\mathbb{R}^2 + n^2 = r^2$, and $\frac{3mnx\sqrt{3}}{4} = a$, and by trigonom. $QD = \frac{3m}{2} : s :: QF$ $= \frac{m\sqrt{3}}{2} : \frac{m}{m\sqrt{3}} = \text{fine of FDQ, and the fine of DQF or DQE} = DFQ$ +FDQ=x= $\frac{1}{m_h/3}$ × $\sqrt{-3m^2-s^2n^2}+cn$, and by fubflitution in the equation for a above we have $\frac{3ns}{4} \times \sqrt{3r^2 - 3n^2 - 3n^2 + cn} = a$, and $n^4 - a$ $2pa^2 = \frac{4a^2}{q_1^2}$, hence $n = \sqrt{p \pm \sqrt{p^2 - \frac{4^{12}}{q_1^2}}}$, where $p = \frac{3r^2}{8} + \frac{ac}{4}$. Therefore, that the thing may be possible, it is manifestly necessary that p be greater than $\frac{2a}{3^5}$, or $\frac{3r^2}{8}$ than $\frac{2a-ca}{3^5}$. Hence it appears, that quest. 400. (Gentleman's Diary) was both improperly propos d and erroneoully answered; for there the latter quantity which ought to be the least will exceed the former by 64 017, and consequently n impossible; wherefore, in such cases, the greatest triangle will be isofecles, having its known angle placed at the extremity of either the greater or lefs axis IH, or gF, according as the tangent of its half is less or greater than the semi-coning. OF; IO being supposed radius in the former case, and OF in the latter. Now, in the above-mentioned example, RF will be found = 33.108, and the triangle EFD =1067.48064.

N. B. If the angle DQF had been given, then the prob. would be easily confirmed by prop. 82. p. 67. Emerion's Conic Sections. Moreover, s? may also be found by a quadratic in terms of q, r, and n, and thus the exact limits of possibility will emerge, but it is too complex

to be put down here.

The answer by Mr. T. White is to the same effect. And Mr. A. Quiver, and Mr. Rowe, also sent answers.

g. Queft. 591, answered by Mr. John Dalton, of Kendal.

Put c=.25 foot, p=.5236, q, r, and s= the specific gravities of oak, oil, and water respectively, and x= the height of the whole segment immersed; then, by the property of the circle, $x-x^2=$ the square of the radius of the segment's base, and its solidity $= p \cdot 3x^2-2x^3$, again, x-c= the height of the segment's immersed in water, its solidity

Hickory.

p. 3+6c. $x^2-2x^3-6c+6c^2$. $x+3c^2+2c^3$; but the difference of these = p. $6c+6c^2$. $x-6cx^2-3c^2-2c^3$ = the solidity of the sone immersed in oil, which $\times r+$ that in water $\times s=pq$, per quest; this reduced and brought into numbers is x^3-1 565:8 $x^2+68159x=-654073$; the three roots are 1.153, 86678, and -4.5437 foot, where it is evident the second only can be applied. Whence the part in water -.352, and that in oil =.14626 parts of a solid foot.

The same answered by Mr. H. TAYLOR, of Knaresbro'.

Ingenious answers were also given by Mestrs. Gavil, Cock, Cunliffs, Jackfon, Majon, Nichosfon, Oliver, Rowe, Saul, and White.

10. QUEST. 592, answered by Mr. J. CUNLIFFE, of Bolton.

The general term of the feries is $9 \times \frac{x+4 \cdot x+5}{8 \cdot x+1 \cdot x+2 \cdot x+3}$, and by comparing this with the formula M'₁ M'', in Glarks's Lorona, the whole sum of the feries is = 19, and the sum of any number x of terms is $\frac{30x}{x+1} = \frac{12x}{x+2} + \frac{x}{x+3}$, as required.

The same answered by Tasso, of Briftol.

The other mofthe given feries is $\frac{9\cdot 4.5}{n \cdot n \cdot s}$, and since p+1'than

11. Quest. 593, answered by Mr. J. Bennet, of Proceall.

Put x=the versed fine of the arch to radius unity, then will 1-15 its cofine, 2-x= the verfed fine of the supplement, and by Emerson's Trig. prop. 2. cor. 4. the cofine of twice the arch to rad. 1. is 2-2 X square of the fine =1-4x+2x2, which drawn into s, put into fluxious and reduced, gives the equation x2-4x= whence ==.1396203, the versed fine of the arch of 300 38' 27" required.

The same answered by Mr. T. Cock, of Cirencester.

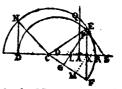
Pat the col of the required arc : then 1-w= the veried fine, 1-x2=the fine, and 1-x x 2x2-1 = the rectangle under its perfed fine and the cofine of its double, which is to be a maximum :

 $\sqrt{\frac{5}{2}}$, +1 = .8603796 the cofine of fluxed, and reduced gives x=-20° 38' the required arc,

And thus the answer is given by Melles. Caroli, Delton, Forcy, Hewitt, Howard, Oliver, Rowe, Saul, Taylor, White, and Youk,

A Geometrical Solution, by EUMENES.

Confirmation. Bilect a quadrant of the given circle NERF in N, from which let fall ND perp. to the quadrant's radius, produce t at radius till it cuts the given circle in R, from the centre C of the given circle along the diam. fet off CA= DC, and erect AQ perp. to the diam. then on the diam. DR describe a femi-



circle whole center is Q; from Q toward A take OL=two-thirds of DA, and then, by the well known method, find the point X fuch that the rectangle under OX and LX may be equal to one-third of the fquare on the given line OR; at X creek EX perp. to the diameter. which will cut off from the given circle the arc ER required.

Demenstration. Continue EX tell it cues the given circle again in P. at the point P where EX cuts the circle DPR, draw the tangent Ps cutting AQ in Q and the diam. produced in S, draw the racius CF, and let fall XM, EG perp. there o. Then, because OL=twothirds of OA, and OX . LX = one third of OR2; therefore 30X . PX: SX, PX2=OX. SX=AX. OX, therefore SX=: AX; coniremently AX is the altitude, and PX the radius of the base of the greatest cylinder that can be inscribed in the globular segment, whose alritude is AR; or, by Simpson's Geom. p. 209. PX8. AX=AX. RX . DX=RX . CX3-CA2=RX . CX2-4 CF3 is a max mum; therefore RX . 2CX2-Cr2=RX . CA4-ra2 is a magimum.

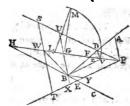
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Now, because EX=FX, therefore GM=MF, and CG=CM-MF; but, by trigonometry, as the base CF: sum of the sides CX-FX; the difference of the sides CX-FX; the difference of the segments of the base CM-MF=CG; therefore, CG. CF=CX²-FX², and RX. CG. CF is a maximum; but CF is given, and therefore the rectangle under RX and CG is a maximum. q. e. d.

12. QUEST. 594, answered by Mr. T. WHITE of Dumfries.

Geometrical Analysis.
Conceive the thing done, let PS,
PT, be the required lines, thre' B;
parallel to ST draw UX, and W
being given, draw PW meeting UX,
in G a given point, thre' D and P
parallel to ST draw DZ, PA, and
A is given, also H the intersect on

A is given, also H the intersect on of CB, WP is given, and PW, AB, intersect in F a given point. Thro' B, parallel to PW, PT, draw BY,



BV. The iriangle PGV is fimilar to PZD, and PGX to VGB; therefore PG': UG:: ZP: DZ, and PG: GX:: VG: GB, hence UG: GX:: DZ. VG: ZP, GB:: SW: WT a given ratio; ... :: a given line A: GB, hence A: GV:: DZ: ZP; but PF: PA:: FZ: ZD, and componendo A. PF: GV. PA:: FZ: ZP; let a line B. AP=A. PF and B: GV:: FZ: ZP, or B: B+GV:: FZ: FP. Again, the ratio of DB: BE is given, let it be:: BF: C, and DZ being parallel to GB, BF: BD:: GF: GZ=GF+FZ.

So C: BE:: GF: GF+FZ, but the \(\Lambda \): BEY, HBV, are fimilar, fo BE: BY=GP-GV:: BH: HG+GV, compoundo C: GP-GV:: GF. BH: (GF+FZ). (HG+GV), take \(\Delta \) fuch that \(\Delta \). CGF. BH: which is given, and then HG+GV: GP-GV:: \(\Delta \): GF+FZ, or HG+GP: HG+GV:: \(\Delta \)+GF+FZ=E+FZ: \(\Delta \); but frum above \(FZ \). (B+GV)=B. \(FP \) fo \(HP : HV :: E. B+E. \(\GV \)+B. \(FP : D. B+D. \(\GV \), that is, \(\Delta \). HP: HV:: \(E. B+FP. B+E. \) GV: \(E+GV \); make \(E. F=D. HP \) and \(E. G=FP. B \); and \(F: to HV \) is \(E+GV = H+GV : B+GV \), hence the difference of the rectangles \(F : B \) and \(H-G = F+GV = H+GV : B+GV \), hence the difference of the rectangles \(F : B \) and \(H-G = F+GV = H+GV : B+GV \), and \(H-G = F+GV = H+GV : B+GV = H+GV = H+G

Confir. If H. HG be less than F. B, take GL such that 2GL=HG+H-F, draw GM perp. to GL and the side of the square which is =F. B-H. HG with LM rad. draw the circle cutting LP in V, thro parallel to PV when drawn, draw PT, take GB: A:; TW: WS, draw PS and the thing is done. If H. HG be the greater refta gle, GL must be set off towards P, &c. The truth is

clear from the analysis.

This was also ingeniously and truly answered by Mr. J. Gough.

13. QUEST. 595 answered by Mr. ADAM OLIVER.

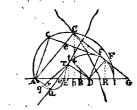
Let ETI be half of the circle, EQACI the femi-eurve, and A the given point. Draw lines as in the figure; then, by fim. right-angled triangles, TD: Tb:: OD: OT:: AO: OQ: OD+AO=AD: OF-PO=TQ. Now, put r=DT=DE=DI, AD=0, Eb

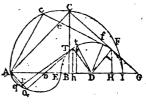
The Mathematical Repository, No 49. 41.

=x, y=TQ and x= the arch ET; then, by the property of the circle, $Tb = \sqrt{2ax - x^2}$, and by the above proportion $y = \sqrt{2ax - x^2}$ for the nature of the curve. Again, by similar sectors, DT (r): Tr (k); TQ (y): $Qr = \frac{a^2}{r}$, and $\frac{ax}{2r} \times y = \frac{a^2x}{2r^2} \sqrt{2rx - x^2}$ = the area of $QTq = \frac{a^2}{2r^2} \times$ fluxion of the circular segment ETb, whose shoent or the area EQTE must therefore be equal to $\frac{a^2}{2r^2} \times$ area of the segment ETb, and EQACITE $\frac{a^2}{2r^2} \times$ area of the given semi-circle. And when the given point is on the circle as at E, then a = r, and the area becomes that of a quadrant of the given circle.

The same answered by Mr. J. FAREY, of London.

Let D be the center of the given circle, A the given point, C a point in the curve, CF a tangent to the circle cutting AD produced in G. BC and HF perp. to AG. Put the rad us DE=DI=DF of the given circle=r, AD =a, AB=x, and BC=y then $AC = \sqrt{x^2 + y^2}$, and =BG, also AG-AD= $DG = \frac{1}{2} + x - a : r :: \sqrt{x^2 + y^2}$ $= \frac{x}{x}$, or $y^2 + x^2 - ax = r$ √x2+y2 is the equation of the curve which is a line of the fourth order, and of Dr. Waring's 5th cafe. Hence





 $y=\frac{1}{2}r^2-x^2+ax+\sqrt{ax+\frac{1}{4}r^2}$, where, if x=0, a-r, or a+r, then y=0, or A. E. and I, are in the curve, when x=0 at A, then y=r, and when $x=-\frac{r^2}{4a}$, $y=+\frac{1}{4a}\sqrt{4a^2-r^2}$ the limiting ordinate, and $x=-\frac{r^2}{4a^2-r^2}+\sqrt{8a^2+r^2}$ when y is a max.

For the area, let we the verted fine HI of IF, then DG = 1, and r: r : r AD + DG : AC = 1, and the indefinitely floader triangles

triangles FDf, sAs are fimilar, for: Pf= 70 :: AC : 60= ACX , and LOAX a the fluxion of the area AcC, which properly ordered becomes $\frac{a^2+r^2}{2r} \times \frac{r\dot{v}}{\sqrt{rv_1-v_2}} + a \times \frac{r\dot{v}+v\dot{v}}{\sqrt{rv_1-v_2}}$ $\frac{a^2}{2r^2}$ Xv $\sqrt[4]{are-v^2}$, the fluents are $\frac{a^2+r^2}{4r}$ X are FI +a XFH= ments. Howard, Taylor, and White, also gave ingenious answers. 14. QUEST. 596, answered by,Mr. T. WHITE. Let D be a point in the curve, B the point of contact of DC with his given circle whole centre is O, thro B, parallel to the line AF given in position, draw GE, cutting OA, drawn perp, to AF, io G, and DF, perp, to AF in E; drop BH also perp. to AF, and let DC : CB :: m : n, OB=ON= OM=a, OA=b, DL=AF=y, AL=DF=x, and GO=+; then m: n:: DC : CB :: x: BH =AG, then GO=OA-AG=b-**-v, BG GL=DF-BH= - .x=DE . HF, From which analogy refults

semi-circle EFI, and EQ CI f TE $=\frac{a^2}{2r^2}$ X EFI; which if a were $y = \sqrt{a^2 - v^2} + \frac{m - n \cdot vx}{m_A / 2}$, which, for y restoring its value $b = \frac{x^{av}}{m_A}$, I the equation of the curve. Now, when v=1, y is infinite, therefore two lines drawn thro' N and M, parallel to AF, will be afymptotes. Alfo x= - - - v, and - x= - x v, hence - yx= - x yv= $\frac{m}{2} \cdot \sqrt[4]{a^2 - v^2} + \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v - v^2 v}{\sqrt[4]{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} + \frac{m^4}{n^2} = \frac{m^2}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} + \frac{m^4}{n^2} = \frac{m^2}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} + \frac{m^4}{n^2} = \frac{m^2}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}} = \frac{m^2 - mn}{n^2} \times \frac{bv \cdot v}{\sqrt{a^2 - v^2}}$ $\sqrt{a^2-v^2} - \frac{m^2-mn}{a^2} \times \frac{a^2v^2}{\sqrt{\frac{2}{a^2-v^2}}}$ the fluent of the first member is $\frac{m^2}{m^2} \times -b\sqrt{a^2-v^2}$, that of the fected $-\frac{m^2}{n^2} \times$ area of the fegment GNB, and that of the 3d $\frac{m^2a-mna}{n^2}$ × length of the circular are 3P. New when B coincides with P, the tangent is perp to AF,

The Mathematical Repository, Nº 49. 43

w=0, y=x=1K, and x= $\frac{mb}{n}$ = AI, hence the area of ILKD= $\frac{m^2-mn}{n^2}$ × . $(bx-b\sqrt{n^2-n^2}-x\times BP)$. $+\frac{m^2}{n^2}$ × circular area OPBG; the required quadrature.

15. Quist. 597, answered by Mr. J. Goudh, of Kendal.

Thro' A and B draw a line to meet FE (produced if necessary) in R, then as B and A are by thequest. equidistant from DE, AR is parallel to DE, join CE, and let KS meet it in V, let FQ, ST and LW be drawn perpendicular to CE. Put AR == a, BR==b, ER=d, CE =c, EF=w, CV=f, ST=y, and TC=x, and let RE ; FQ :: p: s, FE : EQ :: r : p, BL : LW :: m : n, aud BL : BW :: m : q, aff given ratios; then from fimilar triangles it is evident, that LE': KE :: b : a, the triangles ELC, EKV are fimilar, hence EL : EK : CE : EV 1: 6 : 9, therefore the point V and line CV are given; alfe, per notation, we have FQ= , EQ= , hence CQ , the triangles CFQ, CST, are similar, hence FQ: QC :: ST : TC, and w = ry , and, by notation, LW is had model were, EW = ghw and CW = md+rmw-ghw. The triangles CLW, VST, are fimilar, and therefore LW : CW :: ST : TV = d+w . cmy-gbwy and $x = \int \frac{demy}{ubin} \frac{emy}{ub} + \frac{gy}{a}$, but $\frac{y}{ub} = \frac{py - ix}{cr}$ refloring the value of $\frac{y}{ub} = \frac{py - ix}{cr}$ found above, and dividing it by y, hence x f nhr dmix cmy the equation of the locus required; which is therefore a right line, because x and y arise but to a fingle dimension each.

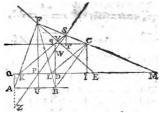
The same otherwise, by SENONSIEL.

The lines being drawn as directed in the question, draw CT parallel to DE, produce FC till it cuts DE produced in M, perp. to AB let fall FU cutting DM in P, and parallel to FU draw ST, BDq, CI, and ZAQ; then, by the projectics of these parallel lines IS:CI::CI:IM::FP:PM, or TS:IM=CT.CI; TS:PM=CT.FP
MD=IM+DI, PD=UB=PM—IM-IDFU:PD::FP:PL,
FU.PL=FP.PDFU:FP::AB:KL,FU.KL=FP.AB.And
CI:ST::ML=PM-PL:CV=KL, V being the intersection of

Questions answered. 1789;

S and FE, and confequently requality CI: ST: FU. M.—FP. PD: FU. KL.—P. AB:: FU. PM. ST.—FP. ST.—FV. ST.—FP. ST: FP. ST: FP. ST: FP. ST: FP. ST: FP. ST: FP. ST: FV. CT.—ST.

M.—IM.—DI, —FU. CT.—FP. CT.—FP. CT.—CI. CT.—ST.

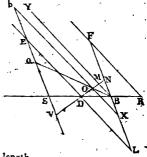


= CT + CI. CT + 12

I=DB. Bg. CT+DI., ST: ST: AB, confequently CI. AB=27. CT+DI., ST; bw. CI, AB, Bg, and DI, are all given lines, and T and Sy are the ab ciffa, and ordinate of the require locus; therefore is is the equation thereof. Through C and D draw a line cutting A produced in Z, through Z, parallel to CB, draw a right line ZW; bich, as is easily shewn, will pass thro'S, and be the licus required. Mr. White, the proposer, supposes A and B requidistant from, but icontrary sides of, DE, and sinds in that case the locus a line of the ind order; but our room is too scanty to admit of it. And Messes, incer and R we also sent answers.

16. QUEST. 598. answered by the PROPOSER.

Produce DB both ways till SD BR DB; thro' R, parallel to eline BM given in position draw cutting BN in F, and thro'S, rallel to BN, the other line given position, draw SY, which is a required line given in position; or D draw any right line UN thing SY in U, BN in N and Min M; take MO MN, then mm B thro' O draw BQ cutting in Q, and making the apoint I, thereen, which, howfoever, a line UN is drawn thro' D,



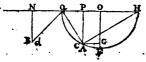
ill always be of the same contant length.

For parallel to MB, theo'O, draw YX, and thro'D draw EL, then sause MN=OM, therefore NB=BX, and QU=QY; but SD=BB, therefore FB=BL=SE, and FN=XL=YE LN=EU,

NR, EU+YE=LN+FN=FL=UY=2FB=2QU; there-e QU is always equal to FB a given or constant line. q. c. d.

The PRIZE QUESTION answered, by Mr. Joseph Edwards.

Let QFH be one of the femicles whose center is O, dQ, half Aring which passes over the pin and connects the weights B and which put = 1, QH = 2, QN = 2, the path of B=x, its velocity



The Mathematical Repolitory, N° 49. 45

at d=v, dQ=y, the velocity of A up the circle at C=v, the arch AF=z, CP=s, and g=the force of gravity pe fecond.

Then if B be taken away, the mitive fired if A down the circle will be $\frac{s}{u} \times \frac{g \pm A}{u}$, and $A \times u - \frac{g s}{u}$ the whole motive force up the circle by the action of the firing, and by the resolution of forces that in CQ, Qd will be Ax 2 xu gs and Ax 2 xu - y respectively, which last being doubled (because the other weight A in the other femi-c rele has the fame force), gives the whole motive forcein Nd- $\frac{2\dot{A}\dot{z}}{\dot{z}} \times \frac{gf}{u}$ in the time $\frac{\dot{z}}{u}$. Again, if B were at liberty, its motive force would be $\frac{\dot{B}g\dot{z}}{v}$ in the time $\frac{\dot{z}}{v} = \frac{z}{u}$ instead of Bv, consequently quently $\frac{B_{g,u}}{B_{v}} = \frac{2A_{z}}{A_{z}} \times u = \frac{g_{z}}{u}$, whence, by writing u for $\frac{w_{z}}{u}$, putting = $\frac{B}{2A}$ and taking the fluents $v^2 = \frac{2g}{m} \times (mx - \frac{u^2}{2} - \frac{1}{2}r + s)$; but - the velocity of B in dQ, or A in Qc, and as CH : 1: $\frac{2w}{y}$: u, or putting CH=w, $v^2 = \frac{gw^2y^2}{mw^2y + r^2x^2} \times \frac{2mx - r + 2i}{2mx - r + 2i}$. Now, when the motion ceases $v^2 = 0$, s = 0, $2\pi x = r$, $x = \sqrt{x^2 - a^2}$, or A: B:: $\sqrt{l^2-a^2}$: r, the required ratio when B will just raise the other two to the horizontal diameters. Lastly, because the tension of the string in direction Nd is as the motive force lost in that direction during the elementary time

Laftly, because the tension of the firing in direction Nd is as the motive force lost in that direction during the elementary time $\frac{\dot{x}}{v}$ therefore $\frac{Bg\dot{x}}{v}$ —Bv is as that tension, and $\frac{Bgy\dot{x}}{vx}$ — $\frac{Byv\dot{x}}{x}$ as that in dQ, which being divided by twice the force of gravity in the same time, because the string hangs double, gives $\frac{By}{2x}$ — $\frac{Bv\dot{v}}{2y\dot{y}}$ for the required tension of the string; or the mass, which being suspended at rest, would have the same effect in stretching the string as the bodies in motion have.

Enmenes, the Proposer, retaining the notation in last year's solution to the prime quest, when adapted to this, makes the unknown weight $\equiv V$, which would have the same effect to first the firing hanging at reft, as the bodies in motion have; and says, that from common principles, it is evident that V must be such that $\frac{2g \vee x}{Bj} \times \frac{y}{v} = v$, hence $V = \frac{Bv}{2g} = \frac{Bvv}{2g} = \frac{Bvv}{2g}$, because in the

prefeat

present case yimmer and B, or rather half B, is accelerated by the force g in direction BS, and retarded by $\frac{agVx}{By}$. As to Mr A's general expression mentioned last year, it is true on the supposition that the fluxion of the time is a constant quantity, but on no other.

Answers to this question were also given by Mestrs. Cunliffe, Gongh,

Howard, Jackjon, and White.

The first Prize of 12 Diaries, for the folution to the Prize Question, belongs to Mr. J. Gough, of Kendall; the second of 6 Diaries to Mr. Edwards, of Hoston; 9 for the Pr. E. to Mr. Burrow, of Boltonfield; and 9 to Mr. Buker, of Nuncaion, for the general answer.

New Mathematical Questions, to be answered in next Year's DIARY.

(1.) Quest. 600, by Eumenes. How pleasant! in the days of Avaunt! ye cumber-grounds, may youth. To fearch for and discover truth; By rays of genius be piere'd thro' Who kindly opes her copious store, Till pride be quash'd, in folly's Without respect to rich or poor; guife! Her votaries, in wildom's ways, But you, ah few! ye learned wife! By reason crown'd with honour's The height of learning is, ye own, To know how little can be known; bays, Shun the fell paths of folly's Who wish to find what's true and [tongue, throng, right, And falshood with her double And place it in the clearest light i And drunkennels, with turpitude Nor think aught little which dif-So fimply vair, so basely rude, plays Tolaze : Aiming of care to ftop the course Truth, in her clearest brightest Who ftillreturns with tenfold force; Take an ellipfe, the axes known, And vanity, and human pride

To cut, then let a way be flewn,
Whose constant aim is truth to hide,
A space triangular therefrom,
But with the same success as night Which both may be a raximum, Withstands the dawning orient And have one angle, all may see, light. The greatest possibly can be, # 70 and 50.

(2.) QUEST. 601, by Mr. J. B.

The sum of two numbers multiplied by the greater is 7:69; and their difference multiplied by the lesser is 7:09; now exercise your-selves, ye beginners in algebra, and find the numbers?

(3.)

(3.) QUEST. 602, by Mr. T. BAKER, of Muncaton.

Fair Sally, aged 32, wants an hulband; the can and will, the faye, earn one shilling per week whilst she lives, over and above her clothes and maintenance; what is the value of her at 5 per cent. compound interest?

(4.) QUEST. 603, by Mr. J. CAVILD, of Beighton.

To determine the point P in the given diameter A B=14 of a circle. fuch that making the chord B C=A P, a line drawn from Rto C may be of a given length=6.

(5.) QUEST. 604, by Tasso, of Briftol.

Given the point D in the fide A C of a given plane triangle A B C to determine another point E in D C fo that drawing E F parallel to C B, meeting A C in E, and A B in F; the rectangle under D E and E F may be equal to a given square?

(6.) QUEST. 605, by Mr. JOSEPH YOULE, School-Mafter.

Given the verticle angle of a plane triangle, and the radii of two circles infcribed in the parts thereof made by a perpendicular let fall from the given angle upon the base; to construct the triangle?

(7.) QUEST: 606, by Mr. J. FLETCHER, of Liverpool.

If through any point P in the periphery of a circle, that is wholly included in another, an indefinite number of right lines be drawn to cut the periphery again in R, and terminate in the circumference of the greater circle in E and F, and from E towards F there be always taken E L equal to RF; required the locus of the point L?

(8.) QUEST. 607, by Mr. Jos. Edwards, jun. of Hoxton.

Two lines A B and A C are given in position and magnitude, to find the point p in the former fuch, that drawing p O to cut off A p. AO in the given ratio of P to Q, the remaining segments p B, O C hall have the given ratio of Q to R?

(9.) QUEST. 608, by Tasso, of Briftol,

Given the line bifecting the vertical angle, and the differences of each fide and the adjacent fegment of the base made by the said bisecting line, to confirmed the triangle?

(10.) QUEST. 609, by Mr. J. FLETCHER, of Liverpool.

Seeing an exciseman's staff in form of a cylinder three fourths of an inch in diameter and 36 inches long, immerfed in a veffel of beer at one end, and the other refting upon the edge of the vessel, 3 inches above the liquor, I observed 13 inches along the flaff to be dry e required the weight of the flaff?

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(11.)

(11.) Quitar. 510, by Mr. J. Howard, of Carlifle.

. Gives the height of the fall, and the velocity of the water acting on a mill-wheel, to determine the proportion of the velocity of the wheel to that loft by the refiftance of the machine, so that the effect may be a maximum? This is here re-proposed because the answers hitherto given are thought unsatisfactory.

(12.) Quest. 511, by Mr. J. Sampson.

What is the equation of the curve, which is every where equidifiant from that of a given comic section?

(13.) Quasa. 512, by Mr. Burnow, of Boltonfield.

Let G A be drawn perpendicular to the diameter A D of a given femicircle, it is required to draw G C parallel to A D cutting the circle in B and C fo that joining A B, A C, the excess of the triangle A B C above A B G may be the greatest possible?

(14.) Quast. 513; by Mr. J. Gouch, of Kendal.

, If a hollow upright cylinder filled with water revolve about its axis, with an angular velocity increasing as any power of the time, to determine the quantity of water discharged over the margin of the vessel in any time, supposing the velocity at the end of a second known, and the water and vessel to revolve with the same velocity?

(15.) QUEST. 514, by Mr. ROWBOTTOM, of West-Hallam

: If tangents, terminating in the axis produced, he drawn to a given conic fection, and perpendiculars to the middle of them meet the corresponding ordinates produced if necessary, the equations and quadranture of the losi of both the ends of these perpendiculars are required?

(16.) Quest. 515, by Mr. A. OLIVER, of Alnwick.

. Suppose the earth to be a perfectly homogeneous sphere, 22 millions seet in radius, a hole perforated diamerically throit, and three non-elastic balls, whose quantities of matter are as 1, 2, and 3, were let sell at the interval of 20 minutes from each other; when and where would they come tegether, the perforation being also supposed a vacuum?

PRIZE QUESTION, by Mr. T. Moss, of London.

To find a feries of whole numbers, each term of which being divided by 14 shall leave a remainder of 4; divided by 50 shall leave a remainder of 30; divided by 35 shall leave a remainder of 45; and also each term divided by 95 shall leave a remainder of 85; by a general method which may be applied to the solution of any other question of the like nature?

FINIS.

The LADIES' Diary:

OR

WOMAN'S ALMANACK,

For the Year of our LORD 1789;
Being the first after BISSEXTILE, or LEAP-YEAR.

Containing New Improvements in ARTS and SCIENCES, And many Entertaining PARTICULARS: Designed for the Use and Diversion of the

FAIR-SEX.

The Eigh y-fixth ALMANACK Published of this Kind.



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Justly their Charms the assonish'd World admires,
Whom Royal CHARLOTTE's bright Example fires.

M O O M O N

Printed for the COMPANY of STATIONERS,
And fold by ROBERT HORSPERS, at their Hall in Ludgate-Street.
[Price flitched, NINE-PENCE.]

BIRTH-BATS, [N.S.] and TEARS, of the ROYAL FAMILY OF GREAT BRITAIN.

KING GEORGE III. Jone & 1728 | Prince of Walne, August 13, 1760 Prince Frederick, August 26, 2769 Prince William Henry, Aug. 21, 1769 Pre. Charl. Aug. Mat. Sept. 29, 1766 Prince Edward, Nov. 2, 1767 Prs. Augusta Sophia, Nov. 8, 1768 Prs. Elizabeth, May 28. 1770 Prince Erneft Augustus, June 5, 1774

Prince Aug. Fred. Jan. 27, 1773 Prince Adolph. Fred. Feb. 84. 2774 Princels Mary, April 23. 2776 Princels Sephia, Nov. 30. 1777 Princete Amelia, Aug. 7, 2781 Queen Charlotte, May 29, 1744 Frs. Augusta of Bauniw Aug. 12, 1727 Duke of Gloucester, Nov. 25, 1743 Duke of Comborland, Nov. 7, 2745

YEARS OF BIRTHS OF the Principal Sovereson PRINCES of EVECPE.

Achmet IV. Grand Solgner 8733 f Charter, King of Spain, 4715 1727 Pius VI. Pope Victor Atmeda Maria, R. Sertinios 726 Catherine, Bateutle of Boffin, M/14 Staniflaus Aug. King of Poland 1736 Maria, Queen of Portugal . 2724

Juliph Bon. Aug. Burp. Carm. 1742 ered, William, King of Pre 2744 Bufffur, King of Sweden, 1746 William V. Stadebolder, 1748 Chaidian VII K. of Densmark. 1749 Pardinand LV. King of Sicily, 1751 Levis XVI. King of France

17 B4

First Quarter, 4th, 24m. past		ki D	ays				3
	4 8	tern.	1	-		-	_
Full-Moon 11th, 46m. pat	t ça	fern.		Sur	ent	ters	200
laft Quarter, 18th, 30m. paf		norn.	1			. 38	
New Moon, 26th, 21m. paff		orn.	1	-			
I In Circumcinon	18 4	3 56	22	s 5 7	0	36	
2 F	4		1-4		10	41	1
3 8	3	57		46		46	
Dez Sun. after Christmas	3	58	-	39			
M 2ld Christmas Day	2	58		32		54	1
Ti Epiphany: Twelfth-day	1	59		25	2	4	1
	0	4 0	,	17	3	14	1
7 W 8 T. Lucian		1		9	4	25	1
F	7 59 58	2		0	5	30	I
S	57	3	21	51	6	26	1
D: Sun. after Epiphany	56	4		42	D ri	fes	F
M Plow Mond. O. N. Yr's D.	55			32		42	1
Il Id. Cam. Term begins	54	5		21	7	8	I
W Drf. Term begins	52	8		11	8	31	1
Tis	51	9	20	59	9	53	2
F	50	10			11	13	2
S Old Twelfth Day [Prifea 2 S. al. Ep. Q. Ch. b. d.k.	49	1.1		36	mo	rn	2
	47	13		23	0	30	20
M	46	14		11	1	45	2
To Fabian. Hil. Ter. 1 return	45		19	58	2	55	2
W Agnes	43	17		44	3	58	21
II- Vincent	42	18		30	4	52	2
F Hilary Term begins	40	20		16	5	38	2
S S. af. Ep. Conv. St. Pau'	39	21	. 0	I	6	17	20
ML St. Ep. Conv. St. Fau	37		18	46	6	48	30
Ti Pr. Aug. F.b. Hil. 2 return	36	24		31		lets	I
W IIII. 21eturi	34	26		1	6 a		2
	33	27		0	7	17	3
F K. Cha. I. mart. 1649	31	29	17	43	8	21	4
S	29	31		27	9	25	
ys L. of D. Dav Inc. D. breaks, Tw. en		32	CI		10	32	_
	_	-		bet.	-	Stars	So
7 52 0 8 5 59 6	3 4	41	4		' .I	8 a	42

28 29 30 31 Day 36 50 4 49 44 38 50 54 58 29 0 20 34 48 11 16 22 10 12 37 16 55

			- ;		
4 February hath	XXVI	ii Day	75.	178	9.
First Quarter, 3d, 25m. past		orn.	1		
Full Moon, 10th, 8m. past Last Quarter, 16th, 10m. past	4 11	orn.		n enters	
New Moon, 25th, 14m. past	. 10 H	orn.	174	. 15h. 28	m.
M.W			10474	Drives	
DD Sundays, Holydays, &c.	ri!es	fets	decl.	& fets	D's
D 4 Sunday after Epiphany	7 26	-	6853		Age
2 M Purif. or Candlemas-day	24	36	35	morn	7 8
3 To Blafe Hil. Term 3 return	23	37	18	,	9
4 W	21		5 59	1 56	10
5 Th Agatha	19	41	41	3 4	11
6 F . 7 S	17	43	23	4 4	12
7 S D Septuagesima Sunday	15	45	4 45	4 55	13
9 M Hilary Term 4th return'	14	48	25	5 39 6 14	
10/Tu	To		. 0	D rifes	15 F
3 rW	8	52	3 46	7 a 18	17
12 TH Hilary Term ends	6	54	26	8 43	18
13 F Old Candlemas day 14 S Kalentine	4	56	. 6	10 4	19
14 S Malentene :	3	1 2/1	2 45	11 22	20
iolM	6 59	59	25 -4	morn Ö 28	22
17 Tu	57	3	1 43	J - J	23
18W - 1	55	5	21	1 44 2 44	24
19TH	53	7	0	3 34	25
20 F	51	1 1	0 38	4 14	26
21 S Quinq. or Shrove Sun.	49	1.7	17	4 4)	27
23 M	47		9 55 33	5 16	28
24 To St. Matthi. Shro. Tuef. Pr		15	11	5 41 6 L	29
25 W Ash Wedn. [Ad. Fred. b	41	19	8 48	Difets	30 N
26 In	39	21	26	7 a 18	2
2 F	38		3	8 25	3
28 S	36	24	7 40	9 3z	4
Days L. of D. Day Inc. D.breaks Tw.	nds S	un hait	Cl. bef.	S. 7 Star	s So.
1 9 8 1 24 5 30, 6	30 6		-	o" 6 a	31
6 26 42 22 11 44 2 0 14	38	9	· 3	16	10
16, 10 2 18 6	55	· 21		17 5	50 31
21 22 88 4 57 7	4	* 27		6	12
7- 42 58 48	13 1	33 1	* i	0 4	53

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N°	86.	Marc	h h	ath	KX I	жi	Da	ys.		-	5
First	Quarter, Moon,	4th,	510	n. pa	elt I	o ni	ght. (ern.	Sur	en	ters	~~·
Laft	Quarter,	18th,	1 cm	. pa			ern.				
New	Moon,		46m	. pa	at 6		ern.				
·ID	n Sun. in			avia		34/5	261	7 s 13	10	a 301	
1 12	Chad .		_			2	28		11	48	5
3/12		. `		٠.	1 3	30 .	30	32	m	orn.	. 7
4 W	Ember W	eek				8	32	9	₩.	54	, #8
5 Ti					1	6	34		-1	55	.9
6 F	D	•	•			4	36	22	2	46	10
	Perpetua 2 Sunday	in Lens	•	,		2	38	4 59 35	3	35 10	. 1 I 1 2
9 M	, vanday				1	8	42	رد د ۱۹		42	. 13
10 Tu	i .		٠.		1	6	44			13	. 14
IIW				:	1	اله	46	25	Ďг	i.es	F
Iz Th	Gregory	*		•	4	2	48	. 1	7 4	39	16
13 F					1	0	50		-	C	17
14 S			٠,	-	į	8	52	14	,	10	18
1512	3 Sunday	In Lent		}		6	54			33	19
16 M	St. Patrick	4	:	í		4	56 58	2/ 3	0	orn;	2Q 21
	Edw. K.		XAM	. •		06	30		1	32	22
19 Ti		<i>y</i> 12 , 02			5 -5	-1-	2	16	2	10	23
20 F	٤.		1		5	6		on 8	2	55	24
	Benedi &		;		5	4	6	32	3	26	23
	Midlent	Sunday	`. .		3 5	2	. 8	55		50	26
23 M		:	100		5	0		1 19	A	13	27
24 Tu	Annunc,	or Lady	ha	o Y	1	8	12	43 2 6	4	3⊣	28
25 W 26 Ti	vuninuc.	or many		J 1. '	4	4	14	30	4	ets 1	20 N
I m			1 .	,		2	18	. 53	7		12
27 F 28 S			† *			0	20		8	39	-
20 D	5 Sunday	in Len	tļ	;	3	8	22	, 45	19		4
30M		3	1 .		3	6		4 3	10	5 H	• 5
21110	l		1		1 3	41	26		11	56	6
Days L	of D. Day	Inc. D.br	eaks	_		_	East	Cl. bef		Stai	s 50.
	0 52 3	8 4	43	7	18	5	37		5"	4 4	•
6 1	1 12 :	48	32 q 21	اند دو	29 40	,	43 49	10	8.	- 14	34 ₃6
16	52 4	8	11		50		55	8 1		3 !	47
21 1	32	48 3	48	8 ,	12	6	2i 8	7	51	Ł "	29
20 J	32 •	40 1 3	40		1			• >	٠, ٠		

6		April hath x	xx	D	ays.			. !	t 78 y	<u>.</u>
F	irtt	Quarter, 3d, 30.n. pait	8 r	no	rn.	1				
F	a l	Moon, gth, 24th, past	1 1 T	ig	ht.				ters '	
		Quarter, 17th, 50m. patt			rn.	1	gd.	4h	ı. 381	ກ. [
N	cw	Moon, 25th, 57m patt	91	no	m	ł				
1	W			26	294	41	40	(1)	orn (7
	Т,	•	3	o!	30	5	12		54	8
3	F	Richard. Cam. Ter. ends	2	8	32		35		38	9
	S	St. Ambrofe. Pif. T. ends	2	6	34		58		16	10
	7	Palm Sun. Old Lady day	2	4	36	6	21	2	50	11
Ş	V		2		38		44	3	.19	12
74	Tu		2	0	40	7	, 6	3	45	13
8	W		1	- 1	40		38		10	14
9		Maundy Thur Play	1	7	43	_	51) ı	rife s	F
80	1	Good Friday	1	5	45	8	13	7	a 58	16
11	\$	(1	3	47		35	9`	16	17
12	I	134 (0. 2 4)	1	1	49		57	10	26	18
13		1 Lanci Money	1	9	5 1	9	18		28	19
14		Latter Tuchday	1	7	53		40	m	orn	20
15			•	5	,,,	10	I.	•	19	21
16	- 4		1	3	57		22	1	0	22
17		1	•	1	59		43	,1	33	23
13	1 -			917	- 1	II	4	2	0	24
19	1	,	5	7	3		25	2	24	25
20	1	1		6	4		46		46	26
2 I	To		5			I 2	6		5	27
22					8		26		24	
23	TH	St. George.	5	얶	10		4 6		45	29
24	F	١	4	3		13		4	6	30 N
25					14		25		lets	
26	1-1	2 Sunday after Easter Easter Term v return	4	- 1	15	•	44		a 50	2
27	-	1	•	- 1	17	14	4	9	56	3
28	10	Eafter Term begins	4		19		22 41	Ι	53	4
	D		3				59		45 orn	. 6
300	-	4	3	4	23		צכ	***		
Da	ts:	. or D. Day inc. Dehiraks Tw.	endsi	Su	n Eatl	CI	bet.	. 50	7 Stai	So.
3	-	12 56 5 12 3 33 8	28	6	15			18"	2 4	49
4	6 1	3 16. 32 20	41		21	1	2	18 1		31
2		34 50 6	55		27	1.		53 1		12
2		4 12 28 40	27		33 39			*	I	54 35
2		30 46 23	38		45		-	, 1		16
-	-		-	-	_	-	_	_	_	

N,	86.	1	May i	hath	XXX	i L	Day	S. ,			7
Laft New First	Moon, Quarter Moon, Ouarter Moon, Quarter	9th, 17th, 24th, 31ft,	2m. 22m. 44m. 20m. 44m.	paft i	nigh	n. t.			n en L şb		
3 D 4 M	St. Ph 3 S. a Easter	A. Eas	of the	e Cros ventios	3	4 2	24 26 28	53	1	123 137 127 153	20 00
7 TH	70bn 1	Ev. ans	Port.	Lat.	2	9 7 5	31 33 36	44 67 87	2	17 42 37	31 32 13
11 M 12 To	4 Sun Eafter Old M	Term	er Easte 3 retur	er Fa	1 1	2 1 9 4	38 39 41 48	33 48 48 49	.0 : 20	56	F 16
13 W 14 Th 15 F 16 S	Rogat	ion Su	· ndav		1 1	4 3 2	47 48 50	33 48 19 -2 16		35 40 51	20 21 22 22
18 M 19 To 20 W 21 Ta	Easter Queen Afeen	Term Char.	4 Petus bers: L Holy T	<i>unfan</i> Turl.	*	9	51 53	42 55 80 80	1116	3000	1 5 mm
22 F 23 S 24 D 25 M	Prs. E Sunda Easter	liz. b. y after Term	Ealter [5 Algerian	Term leturn ion		3 2 5 6 8	\$7 58	- 7	3 3 8 a		* X8 *
27 W 28 Ki 29 F	August Veneral Dif. K. Ch	ble Bed Ferm e	rids			5	2 3 4 5 6	רדי די	Tô Yı.	39 30	Bun & to
			2 4	7w. c	-	3	Fift Fo	53 22 1 Ci. aft.	mo 8. 7	Stars	36. 57.
11 16 11	36 50	36 54 8 8	28 4 0 24	i i Nigh	34 59 41	7	550 49 32		:].		39 59 40 20

dec. 2

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The state of the s			-		
Nº 86. July hath	xxxi	Day	78.		9
Full Nivon, 7th, 31m. patt		noru.	1		
Last Quarter, 15th, 21m. past		norn.		enters ,	
New Moon, 22d, 1m. past		ftern	224.	oh. 44	m.
First Quarter, 29th. 20m. past			1		
1 W I rinney le n chas	3 4¢		23.n6		9
2 Th Visitation of Virgin Mary	44	14		0. (IC
3 F Dog Days begin 4 S Translation of St. Martin	47	~ 1	22 56		11 12
	4` 48	12	51 45	1 It 2 10	
5 D 4 S. aft. Tr. Old Mid. day	4	11	35		L
7 Tu Thomas a Becket. Camb. C.	49	11	33	Drifes	F
ś w	5°	10	. 26		16
ς Tid	51	ي.	10	8 50	17
10 F Camb. Term ends	52	8		.9 12	18
118	53	7	3	9 32	. 12
12 D 5 Sun. after Trin.	54		21 55	9 6	20
13 M Drford Act	55 56	5		10 11	21
14 IU 15 W Swithin	20	4	37	:	22
16 TH	57 58	3	17	10 55	2: 24
17 F	59	1	. 7	11 58	5
18 S Orf. Tenm ends	4 0		20 57	morn	26
15 D 6 Sun. aft. Trinity		7 58	46		27
20 M Margaret	3	57	34		28
21 Tu	4	56	23		-29
22 W Magdalen	5	5 :	0		N
23 lH 24 F	. 7	J	19 58	7 a 54	
1-74 0.1	10	52	46	8 22 8 48	3
25 St. James 26 D 7 Sun. aft. Trin. St. Anne		5°	33 19		
27 M	12	48	6		5
2810	14	46	18452	10 6	
29 W	1.5	41	38	10, 38	7 8
30 TH	1.7	.43	23		ç
i F	1 181	42	8		10
Jays J. of D. Day dec. D breaks Tw. 6	_			S. Stap	
I 6 28 0 6 6 22 12	. 1.7	18		23." 8 m	32
6 22 12 No real Nig	ht	15	١ ،	v 1	11
16 4 30	:	12	1 3	34 7	51
21 15 52 42 1 26 38 56 0 52 11	4	9 5	6	56 3	31
A 20 - 34 1 2.1 - 3-1	T .				

10 August hath	xxxi Dav	s. 1789.
tuil Moon, 4th, 27m. part		1
	2 morn.	Sun enters mg
New Moon, 20th, 18m. paf	1 t night.	22d. 7h. 3m.
First Quarter, 27th, 14m. past	3 uftern.	
1] S Lammas Day	14 2017 401	17n531 0 m 2 11
2 D 8 Sunday after Trinity	22 38	38 0 55 12
	23 37	22 1 53 13
4 Fu	25 35	6 2 55 14
S W		22 7 2 17 16
6 Its Transfiguration 7 F Pro. Amelia b. 1-81. Nam	1	33 7 a 17 16 16 7 38 17
7 F Prs. Amelia b. 1783. Nam.	31 29	
9 Do Sunday after Trinity	33 27	15 59 7 58 18 42 8 17 19
9 Do Sunday after Trinity so M St. Lourence	35 25	24 8 38 20
11 Tuprs. Brunf. b. Dog D. c	37 23	6 9 5 21
is W.Pr. Wales b. O. Lan. do		
[13] [h]	40 20	30 9 50 23
14 F	42 18 41 16	11 10 40 24
15 S Affumption 10 D to Sun aft Trin. Duke c		13 53 11 26 25 33 morn 26
1 [tock born 1763	1 47 13	14 0 23 27
18/70	49 11	1 1 2
19 W	51 9	99 8 50 20
20 Ti	53 7	15 D fets N
23 F Pr. Wm. Hen. b. 1765		11 55 6.2 50
22 5	56 4	35 7 18
23 Din Sunday after Trinity 24 M St. Bartholomew	58 2	
25 To	5 o c 26 58	
26 W	4 96	
97 Tis	6 54	9 51 10 7
28 F St. Augustine	8 52	30 10 57
29 S Bebending of John Baptift	5 51	911 53 1
30 Dis Sunday after Trinity	11 49	8'47 morn 1
3 Million Albander III market III	13 47	25 0 54 1
1) at 11 or 1) to 29 dec. 1) means 1 w.		-
6 4 30 44	14 6 55	
11 14 46 48 2 2 9	56 50	4 43
16 30 2 4 20	30 44	f 1 49 5 5

N۰	86.	Septemb	er he	ith x	KK I) Aays	1	1
Ful	Moon,	4th, 7m.	paft	2 aft				_
Laf	Quarter,	12th, 54m.	pait	2 afte			entere	
	W Moon,		patt	7 mc		220	3h. 28	m.
		26th, 48m	. pait	3 mc	11	1		
I II	Gies		5			8 n 3		2 3
1		burnt 1666	- 1	17	43	7 42	3 5	14
1 7 6		f	- 1	19	41	6. € 7	4 10	F 16
4 S			ł	23	3/1	- 71	6230	17
1817	les Sund	y after Trin	i.	25	37	35 13	6 52	18
MK	Enurebus	-, -100- 1110	***	2,	33	5 50	7 15	19
l RTTi	Naviguite	of the V. Man	, I	29	31	27	7 39	10
9 W	7	- ,	·	31	29	5	8 9	21
to li	4		- 1	32	28	4 42	8 45	22
uF	1		- 1	34	26	69	9 24	23
2 2 S	1			36	24	3 56	10 21	24
3	14, Sund	ay after Trin	ity	34	22	33	11 25	\$2
14 M	Holy-Crof	٠		40	23	10	morn	26
15 W	Ember V	rraalu	- 1	42	16	2,47	0 35	27
	Lambert	V CEE		44	14	24	1 52	20
17 II 18 F			- 1	4°	14	1 37	3 25	30
19 8	l	*	I	5	10	14	D fets	N
	I c Sund	ay after Trin	rity	52	8	0 5	6 a 28	2
27 M			"	54	6	27	6 52	3
22 Ti	K. Geo.	III. crown. 1	761	56	4	3	7 28	4
23 W	1		1	58	2	0320	8 10	5
24	9		•	်ရ	إو	44	9 9	6
25 F	1		ŧ	4 5	58	2 7	9 50	7
26 S	Y. Cyprie		. 1	설	36	34	57	*
27 J	16 Sund	ay after Trin	u ty	6	54	54	morn	3
28 M		. Prs. Ch.A.l	$\mathbf{L}_{\mathbf{N}}$	8	58	Bear		30
, 100	St. Yerom	. I 13. CH.M.) !	A1. D	12	50 48	3 4	1. 7	11
' ''	1	-		• •	40	J . 4		• •
Daysı	L. o. D. D.	dec. D. breaks	Tw. e	nds] but	n East	Cl. au.	S. 7 Stars	Sei
-	3 30 3	4 3 7	8	52 6	2.0	0′ 2	4" 4 89	51
6	10	24 21		8	20	2	2	33
11	32 4	42 34 2 45	1	15	14		14 3	57
21	12	23 56		3	2	7	12	40
26	1 42	42 4 7	7	52 5	55	1 8	4 1	20

,	2			Oe	tob	cr	hat	h x	XX	Da Da	ys.		.1	78	9.
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5 6 7 8	W	5 ait b	:					ŀ	24 26	34 34	ы <u>Т</u>	2 4	6	22°	16
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1 I 1 2	ANI	18 St	ınday	, af	ter	Tri	ņ.		33 35	27 25	7	17 40	ió L	29 40	2 3
13 14 15	W	Trans	. of .I		iegu i	ر ا ا ا	ong.		37 3 41	21 19		31. 25	mo o 2	rn: 59	25 26 27
16 17	FS	Etbela			; ;	1	- -	1	4: 45	17	9	9	3.	40	28 29 N
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14	December hath	xxxi D	ays.	1789.
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CHRONOLOGICAL NOTEs, &c. in 1789.

Dominical Letter	D	Roman Indiction	7	Eafter Day	April 12
Golden Number		Septuage. Sun. Feb			
Epact -	3	Shrove Sunday Feb	. 32	Whit-Sunday	May 31
Cycle of the Sun	6	Lent begins Feb	. 25	Advent-Sun.	Nov. 29

ECLIPSES, &c.

HERE will be four eclipfes this year; two of the Sun, and two of the Moon.— I. The Moon is eclipfed May 9, invifible.—Beguns 8h. 38m. in the morning; middle 9h. 3rm. ends 10h. 24m. digits eclipfed 2. 54 on the 6 north limb.—II. The Sun is eclipfed May 24, at 10h. 20 m. invifible. III. The Moon is eclipfed Nov. 2, vifible; begins 11h. 28m. at night; middle 12h. 32m. end 1h. 37m. next morn. digits ecl. 3° 40' on the 6 south limb. IV. The Sun is eclipfed Nov. 17, invifible. The conjunction at 3h. 29m. morning.

VENUS is a morning flar till May 20; then an evening flar to the end.
JUPITER is a morning flar till Jan. 14, then an evening flar till Aug. 2,

then a morning Star.

There will also be a transit of the Planet Mersury this year, over the face of the Sun, on the 5th of Nov. in the afternoon. It begins at 1h. 10m. and ends at 6h. 4m.—We refer to our Supplement for an account of fuch transits, with a type of the present cure, as also a type of the wishle eclipse of the Moon on the 2d of November.—A COMET is also expected to appear about the beginning of the year.

Answers to the Enignas.

r Fashion 2 Bird nest 2 Millstone 4 Air 5 Echo 6 Fir-Tree 7 Envy 8 Night 9 Smoke 10 Ladies Diary 11 Candle 12 or Prize, Fancy,

Answers to the Prize Enigma.

2. Laura's Address to Mr. Robert Richardson, of Frosterly.

And wilt thou, Richardson, dear long-lov'd name!

Arouse a-fresh my half extinguish'd flame;

Command the "tow'ring mule" from pole to pole,

And touch the skring that shakes my inmost soul!

Fancy! lov'd, satal theme! thy power alone

Bids drooping reason quit her tott'ring throne;

The exil'd senses mourn thy wayward sway,

And nature starts, yet owns she must obey.

Too cruel youth! yet blameless may'st thou shine;
Joy be thy portion, sell despair he mine!
Quixotic madness urg'd me to declare
The lov'd dear source of all my hope and care;
That declaration, and thy juster scorn,
Leave my sad heart with ev'ry passion torm.
Yet blame not, fair diarians, him whose eyes
Know not the wretch who thus in arguish fighs.
Farewell! I sty, an hapless low-lorn maid!
And ling'ring shrink behind oblivion's shade.

1789.

2. Addressed to Mr. R. Richardson, by Mr. William Evans.

Do thou, sweet bard, whose soaring genius can
The mary flights of sancy justly scan
Resume once more thy soft harmonious strain,
To all the filent tribe of Dia's train;
That wont to deck her page with branching bays.
Their honour, and our admiration raise.
For I, with Mrs. Lean, exclaim and grieve,
They've ceas'd to write, ah have they ceas'd to live."

* See ber general answers in 1784.

3 Sylvanus's Address to Miss Nancy S—, who desired him to answer the P. E. Fancy never feign'd a face,
Art could never show such grace,
Vours alone can fill my Fancy.

4. The same answered by Mr. R. G. West.

Phebus had ting'd the glowing east,
The lark had left her mostly nest,
And soaring reach'd the sky;
So sweet she tun'd her matin lay,
That fancy whisp'ring seem'd to say,
She joins the choir on high.

Taught by her fong, my voice I'll raife,
In grateful hymns of facred praife,
To heav in almighty king.
Up then, my foul, with feraphs join,
Extol his mighty power divine,
Who gave thee voice to fing.

5. Mira's Defpair.

Mentor is gone! my guardian, lover, friend; Nor time nor chance can the lov'd youth reftore. Ye pleafing Vificns, now you're at an end, For I must see his angel form no more.

- 6. The Answer by Mr. George Lodge, of Linton. How blest the man whose thoughts need no disguise; His practice virtue, entites this his prize.
- 7. By Miss Eliza Dillotson, of Harscheath, near Linton. How bleft the humble mind when wrapt in thought, Of what to man the greatest comfort brings; How with his blood, Christ our redemption wrought, And seal'd our pardon with the king of kings.
 - 8. By Muster John Pytches, of Linton Academy. Happy the bard whose skill is here display'd, Veiling his fancy thus in masquerade.
- By Mr. Matthew Jackson, of Towersey, Bucks.
 Of all the various ills that men lament, How sew are those which care might not prevent!" Nor vain the precept; by experience taught, Too late we learn, they spring from want of thought.
- 20. By Mr. Robert Allanton, of Middleton, Yorkfbires. Long time I fludy'd to unfold the prize, So well conceal'd, and hid in dark disguise. On downy pinions fancy took her flight, And brought the latent object into fight.

- 11. By Mr. Tho. Nield, Writing Master, of Hawarden School. With mufing thoughts profound I fcan'd your prize; And Fancy's self came strait before my eyes.
- 12. The same answered in an Epigram, by Mr. T. W. Leicester. Two juvenile poets, at Bacchus's fhrine, Imagining wit was enliven'd by wine, Too freely had tippled the stores of the barrel, And with stigmas thrown out had near come to a quarrel. Says one, when you wish your stiff veries to shine, You haste to some author, and there crib a line: But you, fays the other, for want of instruction, Not content with a line, fteal all his production.

GENERAL ANSWERS to the BNIGMAS.

1. On Winter; by Mr. Rob. Allanson, of Middleton, Yorkshire.

Adieu, to flow'ry meads and groves, To rural fcenes, and gay alcoves; No more the birds their nefts prepare, Nor fill with harmony the air, The lily and the fragrant rofe Their beauties now no more disclose; These pleasing prospects disappear, And winter nights are now levere, Rude tempefts echo thro' the plains, And bind the mill in icy chains. No more the rural nymphs are feen To trip along the verdant green, Nor harmless shepherds in the grove His pipe he smokes, and drinks his Are heard to fing foft tales of love;

But to the village they retire. Where, feated round the chearful fire, They pass their time in sweet content, Read Lady Di, and Supplement. Such matchless concord they posses, That scandal dreads to shew her sace. And envy's banish'd from the place. No fancy'd fashions ere perplex, Or prompt the minds of either fex. Thus with content the minutes pals, While each blith swain surveys his laſs,

glaf:.

2. The LADIES DIARY, or Journal of a Day, by Miss Sally Browne.

First in the morning, when I wake, It is my conftant care, To dedicate my foul to God, In supplicating pray'r.

Imploring his efficient grace To guide me through the day; To keep my shoughts and steps aright,

Throughout the devious way. My morning orifons perform'd, I then an airing take, . Far as yon' mill, or yonder grove, Where enery dare not wait.

Returning home with mind enlarg'd, On Providence reflect; Whose finger taught the birds to build, Their restings to protect.

The fealy tribe, the rav'nous beaft, Thou, Lord, provid'st for all! And fays, without thy knowledge, not One sparrow ere doth fall.

The day advancing, I advance. And conflantly employ The busy needle to its task; Which yields me double joy.

No noify smoaker ere intrudes Upon my happy time; Nor booby 'fquire, by father fent. With, ' Mis-will - you-bemine.

The wight arriv'd, I finich it, As I began the day; 'Knowing the fashion of the world Is gliding fwift away."

3. Lucy's Downfall; by Mils Alexia Corney .

No more I hail the rofy morn, Or twine the flow'ry wreath; For Lucy, from my bosom torn, Is in the arms of death.

Alas! poor Lucy, hapless maid,
Thou sigh'd, but sigh'd in vain,
And 'neath the fir-tree's spreading
Did to the air complain. [shade,

Deceitful Damon won her heart; She fancy'd him fincere; She ency'd not the rich or great, Damon was all to her.

Till vain of conquest, foolish youth, By pride too surely won, Porgot his vows and oaths of truth, And Lucy was undone.

One eve, as late we fought the grove, Her eyes began to flow,

Her throbbing breast heav'd fighs of And echo mock'd her woe. [love. Behold, she cry'd, the smoaking cot, Beside you clacking mill, Where first he told his pleasing tale, Nor dreamt I then of ill. I dre i'd myself with nicest art, To please the charming swain; His fmiles beguil'd my flutt'ring The cause of all my pain. [heart, Alas! fond youth, thy broken wows I ever must repeat, And mourn beneath the shady boughs, Where tuneful neftlings meet. Excuse, Diarian friends, the maid Who strives the tale to rell, How Lucy shone as candle bright,

But, ah! too foon she fell.

* The Author thanks this ingenious young Lady for her amusing little anecdote, to the subject of which he heartily wilkes a happy success.

4. The fame, answered by Mr. Thomas Eland.

Dear Di, my painful cause support, Say, shall I leave, or shall I court, The false bewitching Smales: Once she had flattering shoughts of me, And figh'd and wish'd my face to see, But ah! how chang'd her tales.

Now by a youth and dress inspired She flies from me she once admired, Nay once resigned her hand; With smoke her words may well com-

These lost in found, and that in air,
Or letters wrote on sand.

Oh! cruel maid, why thus forfake The youth who only lives to make You happy all your life;

Snug in some little country neft, How wou'd my days and nights be bless'd,

Could I but call you wife.

Must I for take you then !—I must; My muse, provok'd, cries out 'tis just; Forget you then I will: My suit in future shall be paid To some more saithful constant maid,

Some 'Patty of the Mill.'
You with your swain, I with my lass,

Together trip the verdant grass,
Or rest beneath the shade;
Where lofty fir, and spreading oak,
Wou'd see us toy, and hear us joke,
And hide the blushing maid.

Scandal with us shou'd have no place, But baleful envy hide her face,

And joy inspire each breast; Each evening too in peace we'd spend,

Till wasting candle's near its end, Then calmly fink to rest.

5. The same answered by Maria.

Far remote from crouded courts, Far from fashion's splendid seat,

Far from folly's gay reforts, Let me find a calm retreat.

Not a palace proudly swelling, Nor a cot in deserts drear; Let not every eye the dwelling, Nor contempt with frown severe. Seated in a pleasant valley, Where no city's smoke molest: In the firs and bushes near me Let the warblers build their nest. Here a fineam from yonder corn mill Gently wind its course along. There sweet sebo from the hill Kindly answer to my song. When night draws her fable round me, And sapars light supply the day, Then let Gent's or Ladies Dizry Fancy's magic power display.

6. The fame by Miss Betty Smales.

Let me wander up the hill,
Down the vale, or by the mill,
By the gentle falling floods,
Thro' the cool fequefle 'd woods,
New dreft groves and bow'ry mazes,
And o'er hillocks deck'd with daifies;
Whilft the air on zephyr's wing,
Wafts the odours of the fpring;
And the plowman whiftling round,
'Turns the reeking fallow ground;
And the thepherds wind their flutes,
And the virgins ftrike their lutes,
And the nefling warblers fing,
And responsive valleys ring:

Here unemay'd let me dwell,
In some moss-grown rural cell;
And while pleasure melts the lay,
With the tuneful fifters play;
Nature thou haft charms for me,
This is true reality.—
Ye that revel thro' the night,
By the glimm'ring taper's light,
Fond of gay fantastic toys,
Pleas'd with visionary joys,
Would you taste of true content,
Give your mirth a supplement;
Come and share the bliss with me;
This is sweet reality.

At night honest Best with a smile

Awaits the return of her mate,

Whom no gaudy ribbons adorn :

Along by the fide of the hill.

In virtue to finish their race.

found,

Unenwy'd's the pomp of the great. His florid young offspring relate,

How down in the brake by the mill,

Such nestlings, and nests they had

7. The same answered by Mr. J. Walton, of Allen Town.

How fweetly enchanting is fpring, When nature enlivens the fcene? How pleasing each prospect in May, When flow'rets enamel the green? What's all the gay buffle of state, Compar'd with the joys of the field, Where health and contentment refide, That true fatisfaction can yield? Then happy the man who obtains These solid enjoyments of life, Where peace with tranquility reigns, And love that's unfully'd with strife. No greater ambition he knows, Than view the rich crops of his ground, While melody hovers in air,

And echo redoubles the found.

While Bestly fmokes over the sloor, Andquick brings her best homely fare, Her matches or candles the minds; Her scanty repast is not rare. No Diary riddles they mind, Nor Editor's pleasing address; Their bible is solely their guide,

8. Mr. Gradidge, of Canterbury, thus answers the same.

The shortest answer pleaseth best: Then I'll pronounce that one's a Nest; And Fancy says the knews some more, Yes, Echo answers, half a score.

Come,

B 3

Nº 8	6. Enigmas answered.	21
	From Smoke and from clamour how happily free, Nor Enery diffreffing or Molly or me.	9, 3
	The full-fledged Neftling was tuning her firsin,	2
	And harmony echo'd o'er valley and plain;	5
	What nymph or what thepherd that roves o'er the lee,	-
	So Matchless as Molly, or happy as we.	6
	While Fancy still cheering each far distant day,	18
	Lights Hope's friendly Torch to illumine life's way,	31
	And morning and Night in sweet concord agree,	.8
	To add to the pleasures of Molly and me.	
	11. May Morning; by Mr. W. Weatherill, of York.	
	The fun, glorious torcb, that lights up the day,	21
	Has chas'd the gloomy shades of Night away;	
	On ev'ry gay-dress mead and slowing stream,	1
	His radiant beams diffuse a golden gleam;	_
	The birds high perched on each cloud-capt tree,	2, 6
	Make the groves echo with sweet melody.	5
	As through the Air they dart from Ipray to Ipray, Salute with blithest notes the new-born day.	4
	The gentle breeze that turns the Mill-sails round,	•
	Raifes the balmy odours from the ground;	3
	The sweetest fragrance that the slowrets wear,	
	It sheds around, and sweetens all the air.	
	Leave, leave the smeaky town, ye learned train,	9, 10
	Haste, hither haste, where health and pleasure reign;	-
	Drive from your Fancy, Envy far away,	12, 7
	And here with me admire the rifing day.	
	. 12. The ENIGMAS answered by Wildecotiensis.	•
	The fun was just peeping, the morning was fair;	. •
	To the fields with my Kitty to take the fresh Air	. `*
	I hasted, and as we walk'd gently along,	• •
	The lark from his Neft chear'd the skies with his song:	. *
	What a beautiful prospect extended around!	. •
	There a Corn-Mill's rough music the cliffs did resound:	3, 5 6
	There a clump of tall Firs at a distance was seen,	6
•	And the Smoke from the villages vary'd the scene. Thus pleas'd with our ramble we carelessly stray'd	.9
	Nor Envy nor Fashion once enter'd our head;	a
	But Fancying thus that too far we should roam.	75, I 13
	We refoluld to return, and to invested it have	13

We refolv'd to return, and fo jaunted it home.

There refreshed, we feasted our minds with chit-chat,
Talk'd of Lady Diaria, her mate, and all that,
Read o'er the enigmas and queries till Night,

Then found it was needful the Candles to light,

. 10 8

11

13. The same, by Mr. William Bearcroft, of Nawton.

Birdneft, echo, air, mill, famion, and scandal, Make half the enigmas if rightly they're guess'd; Night, smoke, fancy, supplement, matches, and candle, If I'm not mistaken, will answer the rest.

Many other folutions, with the names of all the other answerers, are inserted in the Supplement, pr. 6d. containing the Same in quantity as the Diary, with accounts of eclipses, transits, and comets, &c. &c.

Answers to the Rebuses and Charades.

Abuses. I Cook, 2 Fox, 3 Wed, 4 Helen Latham, 5 Jane Gardener Charades. 1 Eyeton, 2 Bridewell, 3 Lap-dog, 4 Breaft-knot, 5 Starling, 6 Sunday.

1. The Rebuses answered by Mr. Robert Allanson.

If Cook or Fox do e'er defign to wed, And take a partner to the bridal bed; There's none more worthy 'mong the British fair, Than Helen Larbam, or Jane Gordener.

2. On Captain Cook, by Mr. William Boyer, of Leyland Free School.

Reft, glorious Cook, beneath thy dervy fhade, Till death's destruction's universal made: Jane Gardener, Mifs Latbam, Fox, and all, In turn, will join thee at kind nature's call.

3. The Wedding, by Mr. John Burrow, of Bolton Field.

A dish to Cook, is my device 'Gainst Fox and Clayton wed; Of flarlings, woodcocks, all that's nice, The parfon the love knot will knit, That can be caught or bred.

For Latham and Jane Gardener, Bride maids they fay will be, Breaft knots on Suffday will appear, And Lap-dogs there you'll fee. And have them fafely ty'd, And Clayton, tho' she be a wit, Will make a virtuous bride.

4. The Rebuses answered by Mr. Philp Rusper.

If Cook or Fox incline To enter wedlock bands; At love and honour's shrine, Present your willing hands. Jane Gardener, good and kind, · With Helen Latham, too, And "v'ry virtuous mind, The fame defign purfue.

K. The Charades answered by Amaris.

Should Eyeton chance to be a bride, -Numbers would fay 'tis well; Not yet, until the matter's try'd, There's none can justly tell. That Harling's notes her voice excel, On Sunday the be grac'd

With breaft-knot, or in palace dwell, And Lap-dog by her plac'd; Yet who can penetrate the mind, And view the secrets there? Deliberation ere we're join'd, Then ought to be our care,

Digitized by GOOGLE

6. The

6. The Wift ; answering the Charades, by I. E. Strephon.

Let the Belles with fine Breafi-knots go flaunt it along, Attended with Lap-dog, with flattery and throng, Be it mine with fone fair such as Eyeton to prove The sweet satisfaction of cenjugal love: And fearless of Bridesvell, we'll jocundly stray, Where the thrush and the flarsing enliven each spray; And by virtue attracted to church still repair, Each Sunday to join with the pious in prayer.

7. The same, by Philomath, of Rotheram.

To you, ye lovely fair, these hints I send;
Accept this admonition from a friend.
Revere the Sabbath, holy keep the day,
And to your great Creator rev'rence pay:
Let no falle swain in courtship e'er deceive
With Breast-knots, nor his statt'ring words believe;
Though fair as Eyeton, you may, when too late,
Repent in Bridewell your too cruel sate.
Then as the sarling chants her rural lays,
So may you ever sing your Maker praise.

ANSWERS to the QUERIES.

QUERY 1. answered by Mr. Thomas Eland.

The buly world, all day in arms,
With founds confus'd our ear alarms,
Till nought diffinft we hear:
At night, the buly world laid by,
The unmix'd found will fwifdy fly,
And fweetly kifs the ear.

The same, by Mr. John Dalton, of Kendal.

In the night time, when the air is calm and nature is composed, sounds are sewer, and heard more distinctly, than in the day, when the air is frequently more agitated by winds, and a greater variety of sounds prevails, which prevent the mind from making so accurate a discrimination of them, as in the other case. Add to this, that probably the mind may be more attentive than ordinary to ideas of sound at that time, when the faculty of vision is in a great measure suspended for want of light.

QUERY 2. answered by Mr. James Williams, of Colyton,

The found is caused by the small bubbles which are continually rising from the bottom; and it is more distinctly heard in the tea-kettle, than in any other vessel, on account of its globular form: while the bubbles ascend singly, the steady sound continues; but when the water becomes so hot, that several unite together, and ascend as it were in slakes, ebullition commences. There have been various opinions concerning these bubbles: Professor Hamilton, in his ingenious theory of vapours, Pbilos. Trans. vol. 55, endeavours to prove, that they are formed by elastic steam; and it is well known.

known, that when the steam is let out of the boiler of a steam engine, into the open air, it causes a very loud roaring noise.

The same, by Mr. I. Croshey, at Peaschaulm Green, Yorkshire.

The fibilation or finging of the tea-kettle, is caused by the bubbles of air, being driven through the water (with a rapid motion) by the particles of fire, and dashing the said water against the hot concave sides of the vessel, and so causing the noise.

QUERY 3. answered by W. H. Hall, Efq. Burrifter at Law.

In some cases were divorces more easily obtained, it would tend to be serviceable to the state: — but, in other cases, a scandalous abuse of the rights of marriage.—I apprehend, the only answer that can be given with propriety to this query, is sounded on two non-existing principles in the doctrine of civil society, namely, 1. An exemplary punishment annexed to the proofs in the first indance.— 2. A prohibition of instituting suits in ecclessatical courts unless warranted by real proofs.—Were these considerations attended to, divorces would no doubt be salutary to the health of the nation; but, until those regulations take place, the methods of obtaining those dispensions are liable to the grossest subset of a virtuous wife may be brought under the denomination of a harlot, if her husband be base enough to prefer a fust against her, as the present state of the laws of divorce abounds in errors.

The fame, by Mr. John Dalton.

It feems unlikely that the marriage state would be rendered happier, were divorces much more easily to be obtained: For, the condition of the semale fex in general would evidently be greatly depressed by it, without any equivalent advantage to the other sex; as is the case in most uncivilized countries, where haughty tyranny, usited with abject submission, affords sew inflances of that conjugat sticity, which is only to be obtained from mutual love and esteem. In short, any thing that has a tendency to lessen the dignity of the sair sex, in my opinion, is unlikely to encrease the happiness of the marriage state.

The Same. by Mr. Alexander Rowe.

It is a general maxim, that when any thing can be eafily obtained, the thing itielf will be but little defired. Therefore make the obtaining of divorces eafy, and they will rarely be regarded or attended to, and confequently it would contribute to the happinefoof the married flate.

QUERY 4. answered by Mr. James Williams.

Mr. Ray, in his 'Wissom of God in the Creation,' has these words: Those animals, when young and little, finding in the stone some small hole reaching to the middle of it, might, as their nature is, creep into it as a sit latibulum for the winter, and grow there too big to return back by the passage by which they entered; and so continue imprisoned therein for many years; a little air, by reason of the coldness of the creature, and its lying sorpid there, sufficing it for respiration, and the humour of the stone, by reason it lay immoveable and spent not, for nourishmont.' This seems to be pussible, and is the best solution I know of.

The

The same, by Mr. J. Walton, of Allen Town.

As there are no proofs of a spontaneous generation of animals, we may conclude, that either the young toad or the semen must have fallen through the crevices of the stone or rock, into the place where it is found; and so have continued there so long that the crevices have nearly closed upon it. by reason of the growing quality of the stone. And as the dormouse and several other animals, are in a torpid state all the winter; so the toad might continue in that inactive flate, requiring no food during that interval. more than those other animals.

QUERY 5, answered by Mr. John Dalton."

The temperature of the air, in clear, ferene weather, as determined by the thermometer, is generally as follows: The greatest cold in the 24 hours, prevails at, or a little before fun rife; from thence till about two afternoon, the heat gradually increases, and afterwards gradually decreases till next morning: Which may be accounted for thus: The clear air affording a free passage for the sun's rays, like other transparent bodies. receives very little heat from them; of course then its heat must be chiefly derived from the furface of the earth, which being afted on by the fun's rays, will constantly communicate its heat to the adjacent air; so that as the furface gradually increases in heat from fun-rise till sometime afternoon, and then decreases in the same manner; so will the air also that is near it.

If the ingenious querift have frequently found it colder about tun-fet than afterwards, he must have judged of the temperature from sentation, and not

from a thermometer.

QUERY 6, aniwered by Mr. Wm. Bearcroft.

I think it may be faid, without incurring the imputation of atheism. that no fystem of philosophy gives us either convincing or demonstrative proofs of the immortality of man. Perhaps metaphytics bids fairest to answer the conditions of the query .- Inferences may be drawn from anatomy, and even from botany; but every argument drawn from philosophy feems to be weak; and it is from inspiration only that we have convincing proofs of the immortality of man.

See the Supplement for many other answers to the Rebuses, Queries, &c. and the lift of acknowledgments, which there is not room for here.

NEW ENIGMAS.

I. Enigma 709, by Eugenio.

My parts, ye fair, divided lay, Far from the genial warmth of day, In colour diff ring, and in name-These, man combin'd, and rais'd to

Now oft in station high I'm found With gay companions rang'd around, When (how unlike the fons of pride!) Our lester o'er the great preside, Who, guided by their pigmy king, Obedient mount aloft and fing. But when (as sometimes is the case) In tural sports we find a place,

There none pre-eminence can boaft; And ah! our lofty flation's loft. Yet ev'ry nymph, and ev'ry iwain, Hears with delight our artless strain. When the gay fons of Bacchus join To pour libations at his shrine, Oft to my friendly aid they fly. Their wild excesses to supply. Yet I (th ' strange it may appear) With ferious warnings strike their ear, And shew-but that I must conceal, Lest I destroy enigma's veil.

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II. ENDOMA

II. ENIGMA 710, by Mr. George Beck.

Stand forth ye daring fons of art,
And take a brother-brush's part;
Who on Parnass ne'er refuses,
To form a manson for the muses:
For on that hallow'd hill I dwell,
And visit ev'ry gloomy cell.—
Swift when th'impetuous god inspires,
My singers sweep the trembling wires;
And at the nod of mortal men,
I guide, or seem to guide the pen.
My feet, more slimsy than a spider's,
Oft bear a horse and two fat riders:
Yea old and young, and belles and

Heedless tread my tender toes.—
I oftimes by the moon's pale lamp,
O'er the meads and marshes damp,
Or on the glittring streamlets wander,
And seem a grey goose, or a gander;

Or, furious like a spectre grim,
O'et the raging ocean skim,
Untill I sweup some rampart high,
And reas my head into the sky.—
Of yore, in dread tremendous state,
I in the very centre sate
Of wild confusion's blank domain,
And held an unmolested reign;
Until some mighty voice that spake
Bid ev'ry nerve of chaos break;
Bid jarring atoms cease their strife,
And worlds unnumber'd launch to

'Twas then I took my inftant birth, And fell down flat upon the earth. In this new flate, ev'a whilft a minor, I was a rapid bold defigner, Who, in the twinkling of an eye, Ap'd ev'ry foul that durft fland by.

III. Enigma 711; by Drytoaft,

Pretty masters and misses, your servant is come, To dance you a jig to the tap of the drum; To the tap of the drum, or the harp's fofter twang, To divert and amuse you I'll do all I can: Like an Andrew or Harlequin tumble and jump With ease o'er your heads, and pitch on my rump; Now balance in air, now fell, and now rife, With a hundred fuch frolicks, that please and surprize; From the East to the West, and back again bound, And failor-like box you the compass all round. With thomp upon thump, and firoke upon firoke, The patience of Job quite enough to provoke; Yet for all this rough treatment I never will tire, While the music is playing, tho' I've nought for my hire. When the drum or the harp their music give o'er, As a stone or a block I lie on the floor; Altho' I'm fo active and frisk it about, And foot it, and turn it, and make fuch a rout.-In form I'm a monster; no head, leg, or arm; From four to twelve wings, to secure me from harm; With a body, dear miffes, in shape like a thimble, That hops, skips, and jumps, and makes me so nimble. For my wings, to the birds indebted I stand ; For my body, to trees brought from some foreign land; And whenever my maker wou'd have me look smirken, A fkin of some beaft is my waiftcoat or jerken;

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Tho

The most times I'm naked, and jig it in buss-But hold, pretty masters, I've sure said enough Of my person, and anticks—and now tell me whether I'm as heavy as lead, or as light as a feather.

IV. ENIGMA 712, by Kit Went,

In Spring, dear ladies, I keep company With that fweet nymph, yclept Euphrofyne; Nay, am in favour with the Graces three. With fair Urania I'm a welcome gueft, In rapture the will prefs me to her breaft, While in her arms inclos'd I fink to reft.

In Summer, with fair Flora I am feen, In drefs resplendent, cloath'd in liv'ry green; For in her service I have ever been : On her attend in each sequester'd grove, Where seather'd songsters warble forth their love, Frequent with her in sweet retirement rove.

When sweet Pomona, flush'd with Flora's reign, Descending, deigns to bless the fruitful plain, The goddess marks me second in her train. 'Tis then in orchards, I with freedom stray, Through groves of fruit-trees elegantly gay; And thus, in peasure's round, I pass the day.

But where stern Winter reigns,—oh horrid sound! Plac'd in a circle, to its centre bound, In dure despair, I'm fixed in the ground: Thus to my prison dragged like a slave, Void of all pleasing hove, no one to save, In silent tears at last drop in the grave.

Now ladies feir, should you unfold my name, You cannot possibly a see me to same, Tho' to a crown I justly lay my claim; First in, what's term'd rebellion, do appear, With armed troops, with target, sword and spear, Yet from all bloodshed, guilt, and blame am clear.

V. ENIGMA 713, by Quis.

I great affiftance g ve to all mankind;
Search thro' these lines, and you my mame may find,
A friend I have of constant use to me;
But I the active am, the passive he.
Alone, our-taleats cannot be display'd;
Without the other, each is useless shade.
Now, in the maze I wander too and fro;
And act by contraries where'er I go;
And, like the wife of old Laertes son,
Now act, now counteract the work I've done,

I can unravel mysteries; and, with care Things in obscurity, make plain appear. Without my special aid you try in vain, The rebus or enigma to explain.— Now I have surely-said enough to tell What, tho' a while conceal'd, you know so well.

VI. ENIGMA 714, by Miss Louisa Harper,

In me a fav'rite guardian you behold, Priz'd as protector both of young and old. Two mighty powers I oftentimes defy, If summer glows, or winter storms are nigh-When eastern kings appear in splendid state, Amidst their train I wear a look elate; To guard the monarch from a fee I dare, And brave his fury with undaunted air. But this great service o'er, my pride is fled, I'm thrown afide-abash'd I droop'd my head. In Albion's ifle, scarce forty years ago, I ne'er appear'd, but in some dismal show; In gloomy church-yards, then with clumfy mien, To wait on priests throughout the fun'ral icene; Whilst beating rain and blust'ring wind wou'd tear Ev'n the rough habit my poor frame did wear. But now each rank, each fex, do greatly me carels; And most weeks seen in various forts of dress. Not spring's fair meads more lively tinte display, Than those my spreading creft full oft array. -L dies, my name I'm fure you'll now declare, To shield your beauty is my frequent care.

VII. ENIGMA 715, by Mr. Wm. Francis, Mafter of Hook Academy.

The a rogue we oft hide, a frail nymph oft conceal,
Too hashiy do not abuse us:
The honest and brave may the want of us feel,
Nor their hands will chaste virgins refuse us.

When far from his station the centinel's found,
If he's ty'd up and flogg'd, 'tis not odd;
Tho' we move not two yards from our posts, we are bound,
And we cannot escape from the rod.

Each fingle remains, yet our rings we all wear,
Those ensigns of females who wed.
No offspring we have, yet believe me, ye fair,
We are all in our turns brought to bed.

Kings, lords, and plebeans, with warmth we protect:
Good actions too oft, are forgot!
Our fervices furely you'll think they neglect,
To be hung, drawn, and quarter'd's our lot.

VIII. ENIGMA

VIII. ENIGMA 716, by Miss Betty Smalen.

In gay appearance I am always feen;
With humming infects skim the verdant green;
With bird and beast I'm found, with man and woman,
And help to save when danger comes upon 'em.
I of this earth compose the greatest part,
And stand display'd the centre of the heart.
For me, the warblers swell their downy throats;
For me, foft music pours her dulcet notes;
With fond delight I meet the voice of love,
And aid young Damon's whispers in the grove.

IX. ENIGMA 717, by Mr. T. E. Leicesters

In Eden's garden first my birth I date. And was 'fore Adam and his loving mate-In those blast realms where aromatic flow'rs Diffuse their sweets, enliv'ning myrtle bowers. Where innocence decreed to raise her throne. In vest transparent as the starry zone, With them I har'd the great indulgence giv'a, With them the wrath of injur'd angry heav'n, When they with dire transgressions disobey'd Th' Almighty's word, and forfeited his aid: Then I with them was banish'd paradife, Expel'd by justice, wisdom's scourge for vice. How hard my lot, when through me they had breath, . That in return with them I suffer death. Yet I the fallen race do still attend. To be to them both ornament and friend .-The shepherd swain, who hastes to yonder grove, His bosom fir'd with warmest thoughts of love, To meet his nymph while zephyrs wave each ipray, I am his guide, and foremost lead the way; And when with joy he gives the repturous kifs, I'm near, to share the sweet extatic bliss .-But hark! methinks I hear the neighing steed, Nor hedge or ditch the hunter can impede; The timid hare; she leads the merry dance, And led by me the full-mouth'd hounds advance; Still pressing close, at length she yields her breath, Whilft huntsman's hollow hails the victim's death.

K. ENIGMA 718, by Mr. S. Oxley, of Wolfingham, Durham, Dear ladies your fervant, most humble and fervent,

To Diary presents his petition;
A brief candidate, with tale to relate,
And hopes you will grant him admission.

I'm employ'd when you drefs, and you oft me carefs, And fecrets unto me differer,

Great favours I share, beyond all compare, Such as oft are deny'd to your lover.

I'm as gallant in flew as a sprightly young beau, For I'm drest as suits best with your sancy; I'm green and I'm blue, and of every hue; Yet scarlet best pleases young Nancy.

I'm round, and I'm square, and am quite debonair;
Yet remorfeles you are, it not stupid;
For many a keen dart you plunge in my heart,
Such as never were sent you from Cupid.

XI. ENIGMA 719, by Mr. Wm. Jones. No more, ye fair, rely on * Warren's art, To posith youth, and charms to age impart; His boafted efforts in the end will prove The bane of beauty, and the foe of love. Be mine the talk to make Britannia's fair Unrival'd shine, and envy'd favours wear. Joy is my parent, and from pleasure's source, I heighten beauty, and improve its force; By art engaging make the homely please, And love's foft fetters ever force with eafe. Man's gen'ral father felt my fubtle pow'r, When Eve with me first grac'd the nuptial bow'r. The gallant Norngfuk ev'ry art effay'd, In hopes to gain me from a Greenland maid, But Ajat, frigid as her native zone, Referv'd the boon for Anningait alone.-When Celia's Pompey fought the gloomy shade, Where pallid ghofts in fullen pomp parade, For three whole days the nymph no comfort knew. For three whole days I ne'er appear'd in view; Lo! on the fourth the gay Myrtillo came, With love's artillery, and attack'd the dame; The foften'd maid to foothe his am'rous pains From exile call'd me to his aid again; I quick appear'd, and to the swain was giv'n, A pleasing earnest of his future heav'n.

* Perfumer.

XII. Or PRIZE ENIGMA, 720, by Mr. Henry Lee. (Whoover anfapers it before Candismas Day has a chance for 8 Diaries, and another for 8 alfo.)

Yes, let the tempests rife, let lightnings play,
And mighty darkness shade the face of day;
Let sevenfold thunders from Olympus fall,
And to the centre shake the solid ball;
This nought avails; I can the shock sustain;
Tho' ever changing, yet am still the same.

Most objects seem the greatest when they're near,
But farther off, the greater I appears

Survey'd



Survey'd in front, gigantic limbs arise, But back-views dwindle into pygmy fize. One thing is odd ;-diflik'd, I longeft ftay ; When most belov'd, I feem to fly away. I'm hard or easy, just as people make me, And long or short, according as they take me.-On level plains, in fertile countries found, (Where science flourishes, and arts abound) With firs close-joining mostly fenc'd around a Here midft a group, or fingle, oft I stand, With a fell weapon poiz'd at my command a Aftonish'd youth survey my form awhile, Admit the thoughts of death, and back recoil. Just so accourred stands the simple swain, Equip'd for slaughter on th' autumnal plain; The village striplings on him cast their eye, And think the time of harvest-home is night-When dying libertines meet fate's decree, Their laft, their latest wish, is oft for me. The atheift too, at death's approach, declares, Postess'd of me, alas ! - he'd say his pray'rs. When civil broils have level'd hallow'd fance, And cities funk beneath devouring flames; In me behold the mighty fabrics rife, Again the temples kifs their kindred skies!

We have been under the necessity, with the greatest reluctionee, to curtail of these Enigmas, for want of room, rather than omit them intirely.

New REBUSES and QUERIES.

I. REBUS, by Mr. Rob. Richardfon.

The heads of two shadows, in order I place,
And six myself aptly between;
When, my wishes to crown, and my labours to grace,
A lovely Diarian is seen.
But, beware, ye rash youths, who address the coy fair,
Fondly hoping her credence to gain;
Unheeded ye sing of your forrow and care;
The sugitive laughs at your pain.

We are forry that the last letter of this very learned and ingenious correspondent, was delayed at the office, and arrived too late to injert the new Enigma this year. We approve of most of his ideas about our new Supplement to the Diary, (a work so universally desired by our correspondents, and improving and extending the Diary itself,) and he will perceive that we had adopted several of them before his letter arrived, particularly by enlarging it to the size of the Diary with part of the mathematics, &c.

II. REBUS, by Mr. Wm. Hart.

What gen'rous Britons more than life engem's-A judge in Pluto's realm, as poets dream; Th' unhappy nymph who for Narcistus pin'd;. The place for the departed just assign'd;

And

And she who o'er the lib'ral arts presides; She who th' unerring scales of justice guides; And he whose trident rules the foaming sea: Th' initials join'd, a fair one's name you'll fee, In whom is elegance of form combin'd, With every grace that beautifies the mind.

III. REBUS, by I. E. Strephon. To three fifths of a joint, add a father's delight, (But be careful to cull the odd pieces sright) And you'll fee fuch a nymph as is rare to be found, For wit and good-nature so justly renown'd.

IV. REBUS, by Mr. J. Singleton.

To two thirds of a month, and two-thirds of a grain, Add five-fifths of a bard, who much honour did gain: When these parts you've together in order combin'd, Then the name of a fair one you quickly will find; Who with beauty's so bleft, and whose wit is so fine, That she always appears as if something divine.

V. REBUS, by Mr. T. King.

Take four initials from the winds, | Then in an instant you will find And them in order place;

What oft we glad embrace.

I. QUERY, by Mr. Henry Lee.

Is it possible for two persons, of opposite sexes, to hold a strict friend mip with each other, without some degree of love?-Provided that such a friendship does exist, (allowing a little love to be at the bottom of it) and circumstances so embarrassing as to render an union of the parties highly improper; how far ought this friendship to be cherished after the marriage of one of them is confummated?

II. QUERY, by Mr. Ifaac Gumley.

It has long been observed that when the sky is red in the evening, it will be fair weather; and when red in the morning, the contrary; which feems also to be corroborated by our Saviour, in Matthew xvi. chap. ver. 2 and 3. I shall be glad to know from some of the Diarian Correspondents, what natural reasons can be affigued for the same.

III. QUERY, by Christianus.

The best method of preserving eggs, is perhaps by varnishing them. have seen an egg broken that had been varnish'd 12 months, and it was as found as if it had been new laid. What reason can be assign'd for this?

IV. Qurry, by Mr. James Spilling.

What cause can be assigned for the sun not appearing so large when in the horizon in the evening, as he does in the horizon in the morning?

V. QUERY, by Mr. John Cairns. When a person happens to see or hear another person yawn, he is forcibly urged to do the same. What may be the reason of this?

VI. QUERY, by Mr. T. Cock. Whether is the double or fingle microscope the most proper for nice examinations of very minute objects.

* The number of Prizes, and other remarks, are as usual.



Answers to the Mathematical Questions.

I QUESTION 878 answered by Mr Geo. Beswick.

In the given equation $2x^3-x^4-x^2+2x^2y-y^2=2xy$, transpose all the terms to one fide, and its square root will be $x^2-x-y=0$, of $x^2-x=y=y$; by which divide the equation $\sqrt{x^3y}-\sqrt{x^3y}=2xy$, or $x^2-x+\sqrt{x}y=2xy$, and the quotients give $\sqrt{x}y=2x$, or y=4x; therefore the two values of y, viz. $x^2-x=4x$; hence x-1=4, or x=5; and consequently y or y=20. Therefore the ages are 24 and 20 years.

The same by Mr Geo. Stevenson:

The third quantity transposed to the same fide with the first, gives $x^2-x-2y\times x^2-x+y^2\equiv 0$, which is evidently a square, and its root is x^2-x-y , therefore x=1.x=y. And the latter of the given equations gives $x=1\times \sqrt{xy}\equiv 2y$; this squared, and divided by y, gives $x=1.x\equiv 4y$; therefore by substitution $x=1.x\equiv x-1.4x$; hence $x=1\pm 4y$ and $x\equiv 5$. And the ages 20 and 25.

The fame by Mr. John Craggs, of Hylton:

By transposing the 3d quantity, and extracting the root, it is $y = x^2 - x$. The second given equation squared, and divided by xy, gives $x^4 - 2x^3 + x^2 = 4xy$; which added to the xst and 3d quantities, gives $y = 2x^2 - 6x$. Consequently $2x^2 - 6x = x^2 - x^2$ hence 2x - 6 = x - 1; or x = 5; and therefore y = 20. And the ages 20 and 25.

See other answers to this and the other questions, and the acknown-

kdgments, in the Supplement.

II QUESTION 879 anf. by Mr Matt: Fleck; of Stella.
Put * the length, and j the breadth of the rectangular field; then is x j its area. Hence, by the question

 $\frac{x+5}{x+2} \times \frac{y+2}{y+5}$ or $\frac{xy+2x+5y+10}{x+2} \times \frac{y+4}{y+5}$ or $\frac{xy+5y+10}{x+2} \times \frac{y+5}{y+4}$ or $\frac{xy+445}{x+2} \times \frac{y+5}{y+4}$. The dif. of there is $\frac{xy+445}{x+2} \times \frac{y+5}{y+45}$. This value taken for $\frac{x}{x+5} \times \frac{y+5}{y+45} \times \frac{y+5}{y+45}$. This value taken for $\frac{x}{x+5} \times \frac{y+5}{y+45} \times \frac{y+25}{y+45}$.

The same by Mr Henry Tilney, junior.

Let x and y be put for the length and breadth of the rectangle. Then for queft, $x + 5 \times y + 2 = xy + 430$, and $x + 2 \times y + 5 = xy + 445$. By comparing these two together, it appears that x = y + 5. Hence by subditioting this value of x in the first equation, and reducing it we have y = 584. Whence x = 634 poles.

III QUESTION 880 answered by Amicus.

In the right-angled spherical triangle E BDH, DH is an arch of the equinoctial, measuring the hour from 6 when the sun is due east at E; EH the altitude, DE the declination, and DHE the latitude 22°.

By Crackelt's translation of Mauduit's Trigon, page 68, prob. 3, as cot. 11°; tang. 11°; s. EH + DH; s. EH - DH, therefore the sines of the sum and dif. of EH and DH are in a given ratio; conseq. the greater the sine of the sum, the greater that of the dif. and of necessity the greater must the dif. itself be: but when the sum is a quadrant, its sine is the greatest possible; and therefore as cot. 11°; tang. 13°; s. 50°; s. EH - DH when a max. = 2° 10′ fere. Hence DH = 43° 55′, EH = 46° 5′, and DE = 15° 39′ north declin. May 2 at 55′ past 8 d. M.

The same by Mr Dowid Kinnebrook, junior.

Let x be the fun's place at the time of observation, x H his altitude, DH part of the equator, Dx the declin. then is the $\angle H \equiv 22^\circ$ the latitude of the place, whose cosine let $\equiv c$, also the tang. $EH \equiv x$; then per spherics, $EC \equiv x$ the tang. of DH, whence the fluxion of the arc DH is $\frac{cx}{1+c^2x^2}$, and that of the arc EH is $\frac{x}{1+x^2}$; but the diff. of the said two arcs is, by the question, a maximum, consequently $\frac{x}{1+x^2} = \frac{cx}{1+c^2x^2} = 0$; hence $x = \sqrt{\frac{1}{c}}$ the tangent of EH $= \frac{43^\circ}{4^\circ} \cdot \frac{58^\circ}{4^\circ}$ the fun's altitude; and $cx = \sqrt{c}$ the tang. of DH $= \frac{43^\circ}{4^\circ} \cdot \frac{55^\circ}{4^\circ}$ the measure of the hour from 6; from whence by spheries the declination is found to be $\frac{15^\circ}{4^\circ} \cdot \frac{39^\circ}{4^\circ}$, answering to May 2d, 8h $\frac{55^\circ}{4^\circ} = \frac{1}{c} \cdot \frac$

. The same by Mr Wm. Simpson, junior.

Lef E be the fun when due east, \angle H the latitude, DE the sun's decimation, and DH the time from 6. By tab. I pa. 280 Simpson's Flux. EH: DH:: cos. DE: sin. \angle E. But when EH = BH is a max. then EH = DH; conseq. sin. \angle E = cos. DE. By spherics, radius cos. DE:: s. \angle E = cos. DE: cos. \angle H, or radius \times cos. \angle H = cos. DE: Cos. DE: \times Cos. DE:

IV QUESTION 881 answered by Mr Alex. Rowe, of Reginnis.

The probability that 3 heads precifely out of 9 halfpence at one know, er, which is the same, that one halfpenny comes up a head

precisely 3 times in 9 throws, by prob. 5, Simpson's Laws of Chance, is $\frac{9\cdot 4\cdot 7}{2\cdot 2^9} = \frac{21}{128}$, and therefore that of the contrary is $\frac{107}{128}$. And, by the same problem; the probability that it happens just 4 times in 5 trials, is $5 \cdot \frac{4}{2} \cdot \frac{3}{3} \cdot \frac{2}{4} \cdot \frac{107 \cdot 21^4}{128^5} = \frac{104047335}{34359738368}$ So that the odds are as 34255691033 to 104047335, or nearly as 329 guineas and $\frac{I}{x}$ to one.

The same by Mr James Ashton, of Harrington.

The 9th power of 2, or 29 = 512 are all the chances; and it appears by the binomial theo. that there are $\frac{84}{512}$ and $\frac{428}{512}$, or $\frac{27}{128}$ and $\frac{107}{128}$ chances respectively for and against 3 heads precisely at one throw. Put a=21, b=107, n=5, and t=4; then, in the feries a5+5a4b, &c. 5a4b is the term in which the index of a is t; therefore $\frac{5a^4b}{a+b^n} = \frac{104047335}{34359738368}$ is the pubability of happening precifely 4 times in 5 throws. Therefore the odds against the gamester are 34255691033 to 104047335, or 329 guin. 4s. 101d-to 1 guinea.

V. QUESTION 882 answered by Mr John Dalton.

The lengths of pendulums are as the forces of gravity, and the squares of the times of their vibration. If, therefore, the times be constant, the lengths will be simply as the forces. And as gravity decreases in the inverse ratio of the square of the distances from the earth's center; therefore its force at the distance of 4 radii, will be 1 of that at the furface, and consequently the length of the pendulum $\frac{1}{16}$ of its length at the furface $=\frac{1}{16}$ of $39\frac{1}{8}=2.445$ inches, or 24 nearly.

VI QUESTION 883 anf. by Mr Geo. Brown, of Newcastle.

Let ABC be the cone, DE the diameter of the circular fection, parallel to BC, and DFG half the parabolic fection parallel to the fide AB. Now BC being 8, and the perp, altitude 10, therefore AB2 or AC2 is = 116. By the nature of the circle, VBF.FC = FG half the base of the parabola; and, by sim, tri. BC : BA :: Fe : FD = FC . AB its altitude;

theref. 4 r G. F D OF 4 EF. FC. FC. AB BC is the area of the pa-

rabolic fection. And p.Dz² or p.Bz² is the area of the circular ction, where p = .7854. Theref. by the queft. $\frac{4}{3}\sqrt{BF.FC}$. $\frac{FC.AB}{BC}$ = p.Br². Hence by fquaring, &c. it is 16AB².FC3 = 9p².BC². BF3, or BF3 : FC3: 14AB: p.3BC; and hence BF: FC or AD: BC: 13/16AB²: 13/29.9BC²: 13/29.3395²: 177351: 1. Hence then BF = 5'075; and FC = 2'925.

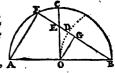
The same answered by Mr Joseph Peace.

Put p = the perpendicular, b = the base BC, s = A B the slant side of the cone, a = .7854, and n = px or BF the diameter of the circular fection. Then $2\sqrt{BF.FC} = 2\sqrt{\frac{b-x}{b-x}} = G$ In the base of the parabola; and by simple triangles $b : s : b = x : \frac{b-x}{b}$, s = DF its alt. Theref. by the quest. $2\sqrt{\frac{b-x}{b-x}} \times \frac{b-x}{b} \cdot \frac{2}{8} s = ax^{\frac{1}{2}}$. Hence by reduction is found $x = \frac{b}{1+\frac{3}{4}\sqrt{\frac{9a^2b^2}{16b^2}}} = 5.075$ nearly.

VII QUESTION 884 answered by Mr John Cullyer, of Hingham.

Let the figure be drawn at per question, and join AF. Assume the radius so of Bo=1, and put x= fine of ABSO or BAF; then is SF=2x, and as x:1:

BO OF I: = BE. Hence EF = 2x - \frac{1}{x}, A



and $\mathbb{R}_{\mathbb{R}} = \frac{1}{x} - 1$; and confequently EF.ED of $2x - \frac{1}{x} \times \frac{1}{x} - 1$ must be a max. This being put into fluxions, and reduced, there exists this cubic equation $x^3 + \frac{1}{2}x = 1$, the soot of which is $x = \cdot \mathbb{S}_3 5 122$, the sine of 56° 38' the \triangle BE of each; and therefore $\mathbb{R}_{\mathbb{R}} = \mathbb{S}_3 + \mathbb{S}_3 = \mathbb$

The same by Mr Abel Whitehouse .

Put BE = x, and rad. BO OF BD = 1. Then BE 180 (BA /BF, that is x : 1 :: 2 : $\frac{2}{x}$ = 2 . Hence EF = $\frac{2}{x}$ = x = $\frac{2-x^2}{x}$, and E B

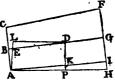
x=x. Therefore x=x or x=x x=x is a max. The fluxion of which made x=x o, and the equation reduced, we get $x^3=x$ $x^2=x$; the root of which is x=x $x^2=x$.

The same by Mr John Roden, of Cromford.

Draw the chord AF, which will be perpendicular to BF; and let the radius AO or OB = 1, and DE = x. Then, by fimilar triangles, BE:BO::BA:BF = $\frac{2}{1+x}$; hence EF = BF = BE = $\frac{2}{1+x}$ - E = x; and consequently DE.EF = $\frac{2x}{1+x}$ - x - x² is a maximum; the fluxion of which made = 0, and reduced, gives $2x^3 + 5x^2 + 4x = 1$; the root of which is x = 1974. Hence EF = $\frac{47312}{2}$, and DE.EF = $\frac{993346}{2}$, as required.

VIII QUESTION 885 anf. by Mr Da. Kinnebrook, jun.

Let B G be the axis of the frustum, and ACFH a section of it through the middle of two of the opposite hexagonal sides, C which section it is evident must be perpite to the horizon. Now the sides of the hexagon at each end being 6 and 9; A B and 6 H, perpendiculars from the centre to the middle of the sides, are easily found

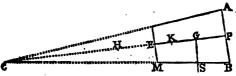


to be $3\sqrt{3}$ and $\frac{9}{2}\sqrt{3}$ respectively. Draw AI parallel to Ba, also PD and AE perp. to AH; then if the frustum rest in equilibrio on the point P, it is requisite that AH should be parallel to the horizon, and that the centre of gravity of the frustum be at the point D where the line PD meets the axis BG. Put AB $3\sqrt{3} = a$, $GH = \frac{9}{2}\sqrt{3} = b$, $HI = \frac{3}{2}\sqrt{3} = c$, AP = 12 = d, and AH = x. Then, by sim. trian. AI: AH: AP: AK, that is $\sqrt{x^2 - c^2}$: x; d; $\sqrt{x^2 - c^2}$ in then, by $\frac{dx}{\sqrt{x^2 - c^2}}$ BF; then BE + ED $= \frac{ac + dx}{\sqrt{x^2 - c^2}} = BF$; but BD is also $= \frac{1}{4}\sqrt{x^2 - c^2} \times \frac{3b^2 + 2ab + a^2}{b^2 + ab + a^2}$ by the method for sinding the centre of gravity, (see page 74, BDr. Hutton's Mathematical Mississipposition of the single page 74, BDr. Hutton's Mathematical Mississipposition.

There is just published a new edition, greatly enlarged and improved, of this gentleman's large Treatist on Mansuration. Also the Compendical Massurer, for the Use of Schools, price 3 s. 6 d, by the same,

cellany). Put
$$m = \frac{3b^2 + 2ab + a^2}{b^2 + ab + a^2}$$
; then $\frac{ac + dx}{\sqrt{x^2 - c^2}} = \frac{m\sqrt{x^2 - c^2}}{4}$
which equation reduced, and the root found, it gives $x = \frac{2d}{m} + \frac{d^2}{m^2} = 22 \cdot 5658 = AR$, and hence $\sqrt{x^2 - c^2} = 22 \cdot 415738 = 86$, the length of the frustum required.

The same answered by Mr John Dalton.



It is evident that the block can only rest in equilibrio when its centre of gravity is supported; that is, when the needle produced would pass through the said centre; and that its under surface must also be parallel to the horizon. Now to find the centre of gravity, put c r the perp. height of the whole pyramid = x; then from the data will z r the frustum's length = 1x, and the solidaties or weights of the frustum and remaining part, will he as 19 to 8. Then if on CP there be taken $CH = \frac{1}{4}CE = \frac{1}{4}x$, and $CE = \frac{1}{4}x$, the points H and K will be the centres of gravity of the upper part and whole frustum respectively; and then, by mechanics, 19:8:: HK or $\frac{1}{4}x$: KG = $\frac{2}{10}x$ the diffance of the centre of gravity of the frustum from that of the whole pyramid; whence cx + x G = cG = $\frac{65}{7}$ x. Again, PB² = $\frac{9^2}{1}$ = $\frac{1}{2}$ of $9^2 = 60\frac{3}{2}$; theref. the flant fide $CB = \sqrt{60\frac{3}{2} + x^2}$, and CS the diff. of the needle from the vertex $= c M + M S = c S = \frac{3}{4} \sqrt{60\frac{1}{2} + x^2}$ +12; and hence, by fimilar triangles, cr:cs:cs:cs= $60\frac{1}{4} + x^2 + 18\sqrt{60\frac{1}{4} + x^2} \div \frac{3}{2}x$. This value being equated with that found above, and reduced, gives x in a quadratic; and when folved x = 67.2. Whence the length of the block = 22.4 inches.

IX Question 886 answered by Amicus.

Let t = t the time wherein a fum r = a all the prefent worths would smount to s = t the fum of all the debts, and n = t the amount of r pound in one year; then by the nature of compound interest r = s, and confeq. by the nature of logarithms $t = \frac{1 \cdot s - 1 \cdot r}{4 \cdot s}$, whence the whole is manifest.

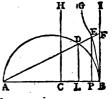
The same answered by Mr Thomas Todd.

(Inserted verbatim, as the author desired).

If x = time from the first term to the equated time, then t - x = time from the equated time to the last term, s = time of debts and r = time of all the present worths, and the rest of the notation as given in the question; then by Old method, we have a+b+c+&c.+m $x^{r-x} = ar^{t-n} + br^{t-n} + cr^{t-n''} + &c.+m, \text{ the whole divided by } t^{t-x}, \text{ transforms it into Mr Kersey's method, } a+b+c+&c.$ $+m = r^x \times ar^{-n} + br^{-n'} + cr^{-n''} + &c.+mr^{-n'}, \text{ or } r^x = s...x = \log. \text{ of } s - \log. \text{ of } r$ the time sought. And lastly, by Malcolm's method, we have the sum of interests $ar^{x-n} - a + br^{x-n'} - b + &c.$ $= \text{sum of discounts } m - \frac{m}{t-x} (m - mr^{x-t}) + &c. \text{ which by transforms in the sum of the sum$

X QUESTION 887 answered by Amicus.

Draw E P and D L parallel to B I. Then fince, by the quest. ACCB! DEEF, by fim. tri. ACCB! LP | PB, and AB| CB| LE| PB, or AB| LB| CB| PB, or LB| AL| PB| CF. But LB| AL| DB² | EB. AB| AD² | AL. AB| EP² | AP²| PB| CF. That is, EP² | CP | PB. AP²| | CB | CP | AC + CP | which is Sir A least Newton's equation of the 44th species.

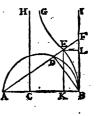


The same by Mr John Farey, the Proposer.

The lines being drawn as in the question, from E let fall the perpendiculars $E \times And E L$, and draw D B. Put $A \subset m$, C B = m, the absciss $C \times m = x$, and ordinate $E \times m = y$. Then

$$\sqrt{\frac{1}{n+x} + y^2} = AE$$
, and $AK:KB::AE:$
 $\frac{m-x}{n+x} \sqrt{\frac{2}{n+x} + y^2} = EF$, also $AE:AK$

$$\frac{n_1 + x \cdot n + m}{\sqrt{n_1 + x^2 + y^2}} = AD, \text{ and hence } AE$$



q uestion, $A \subset C \subseteq B$; $D \subseteq E \subseteq P$, or $A \subset E \subseteq C \subseteq B \subseteq B$, that is $n = \frac{m-x}{n+x} \sqrt{\frac{n+x^2+y^2-m}{n+x^2+y^2-m}}$, which quation reduces to $xy^2 = \frac{m-x \cdot n+x}{n+x}$, or $xy^2 = -x^3 + \frac{m}{2n}$ $x = \frac{n+x^2+y^2-n+x \cdot n+m}{n+x}$, an equation belonging to the 44th species of Signature Newton's curves.

XI QUESTION 888 answered by Mr Isaac Saul.

The length of the flick, or flant fide of the cone, being 5, and the radius of its base 3 feet, therefore $\sqrt{5^2-3^2} = \sqrt{16} = 4$ is the altitude of the whole cone described by the stick. But the centre of oscillation is at $\frac{3}{2}$ of the length of the flick, and therefore $\frac{3}{2}$ of 4, or $2\frac{3}{2}$ is the altitude of the cone described by the part to the centre of oscillation, which call a. Then, by page 243 of Simpson's Pluxions; $3^{1}14159\sqrt{\frac{2a}{16\frac{1}{12}}} = 1^{10}.809066$ is the time of one revolution of the stick; conseq. 1.89066 × 7 × 1142 = 14461.7 feet, or 2 miles and $\frac{3}{2002}$ yards, is the direct distance of the cloud as required.

The same answered by Albensis.

The flant fide of the whole cone being 5, and the radius of its base 3 feet, therefore $\sqrt{25-9} = \sqrt{16} = 4$ is its altitude; and because the centre of oscillation is at $\frac{3}{4}$ of the length of the flick; therefore $\frac{3}{4}$ of 4, or $\frac{3}{4}$ is the altitude of the cone above the centre of oscillation, which call a; also n = 3.1416, and $p = 16\frac{1}{12}$. Then, by prob. 9, Emerson's Centrip. Forces, we have $n\sqrt{\frac{2a}{p}}$ the periodic time of one revolution. And as sound flies at the rate of 1142 feet in one second, and the stick made 7 revolutions from the instant of seeing the lightning, fill the report of the thunder, we have $n\sqrt{\frac{2a}{p}} \times 7 \times 1142 = 14461.67$ feet = 2.739 miles, the distance of the thunder cloud required.

XII QUESTION 889 answered by Mr Alexander Rowe, of Reginnis.

Since the fluxion of the logarithm of any quantity is equal to the fluxion of that quantity divided by the same quantity; if the quantity be x + c, where c is a small given number, the fluxion of it is x, and the fluxion of its logarithm is $\frac{x}{x+c}$, which, by dividing the numerator by the denominator, is

$$\frac{\dot{x}}{x+c} = \frac{\dot{x}}{x} \pm \frac{\dot{x}\dot{x}}{x^2} + \frac{\dot{c}^2\dot{x}}{x^3} \pm \frac{\dot{c}^3\dot{x}}{x^4} + \frac{\dot{c}^4\dot{x}}{x^5} &c_{\frac{3}{4}}$$

then taking the fluent of every term, we have the

log. of
$$x \mp c = 1$$
. $x \mp \frac{c}{x} - \frac{c^2}{2x^2} \mp \frac{c^3}{3x^3} - \frac{c^4}{4x^4}$ &c.

Now if we take the four numbers mentioned in the question to be $x = \frac{3}{2}$, $x = \frac{1}{4}$, $x + \frac{1}{4}$, $x + \frac{3}{2}$, which have the common difference 1; then making c successively equal to $-\frac{3}{2}$, $-\frac{1}{4}$, $\frac{1}{4}$, $\frac{3}{4}$, the above theorem for the log, of x = c will give these four logs, viz.

$$\frac{1}{1} \cdot (x - \frac{3}{2}) = 1, x + m \times (-\frac{3}{2x} - \frac{9}{4 \cdot 2x^2} - \frac{27}{8 \cdot 3x^3} - \frac{81}{16 \cdot 4x^4} &c)$$

$$\frac{1}{1} \cdot (x - \frac{1}{2}) = 1, x + m \times (-\frac{1}{2x} - \frac{1}{4 \cdot 2x^4} - \frac{1}{8 \cdot 3x^3} - \frac{1}{16 \cdot 4x^4} &c)$$

$$1.(x+\frac{1}{2}) = 1.x + m \times (+\frac{1}{2x} - \frac{1}{4.2x^2} + \frac{1}{8.3x^3} - \frac{1}{16.4x^4}$$
 (c)

$$\frac{1}{2}(x+\frac{3}{2}) = 1. x + m \times (+\frac{3}{2x} - \frac{9}{4.2x^2} + \frac{27}{8.3x^3} - \frac{81}{16.4x^3} &c)$$
where m is the modulus of the fystem of logarithms. Then, taking

the fuccessive differences of these logarithms, the third difference is
$$6 \times (\frac{3^2-1}{3\cdot 2^3x^3} + \frac{3^4-1}{5\cdot 2^5x^5} + \frac{3^6-1}{7\cdot 2^7x^7} + \frac{18-1}{9\cdot 2^9x^9} &c)$$

$$x = x \left(\frac{1}{x^3} + \frac{3}{2x^5} + \frac{39}{16x^7} + \frac{205}{46x^9} &c \right).$$

Now, by the queft. $a = x - \frac{1}{2}$, and p or $\frac{a+2}{2a+1} = \frac{2x+3}{4x}$; therefore $\frac{16x4 - 24x^2 - 3}{32x}$, and $\frac{m}{2pa^3 - \frac{1}{2}} = \frac{32mx}{16x^4 - 24x^2 - 3}$.

$$is = 2\pi\left(\frac{1}{x^3} + \frac{3}{2x^5} + \frac{39}{16x^7} + \frac{189}{48x^9} &c\right),$$

which agrees with the feries for the 3d diff. except in the last term, in which it differs from it by only $\frac{2}{3x^9}$, which when x is = 100, will have cyphers in the first 18 places of decimals, and a 6 in the 19th place, to multiply by m the modulus.

XIII QUESTION 890 answered by Amicus.

In this question, if the angle of vibration be of any confiderable magnitude, the final equation will involve fecond fluxions fourred when freed from furds, and be so complex, as to render the separability of the unknown quantities in a manner hopeless. But if they be exceedingly small, let b = the ver ed fine of the arc of vibration to the constant radius = a = the length of the string, x = the part of that versed sinc answerable to the vertical descent in the vibration of the less body during the time t, gravity = 32 = 2s, u = the diffance of that body from the pulley at the end of that time, and v = the velocity in the direction of the firing; putting $m^2 = \frac{w + w}{w - m}$, then by the nature of motion, and the question vv = - 23 u nearly, and v = $2\sqrt{\frac{a-u}{m^2}}s$. But the vibrating velocity of the body perpendicular to the string = 2 /s x, and the space described with that velocity = $\frac{\dot{x}\sqrt{u}}{\sqrt{2b-2x}}, \text{hence } i = -\frac{\dot{u}}{v} = -\frac{m\dot{u}}{2\sqrt{2b-2x}} = \frac{\dot{x}\sqrt{u}}{2\sqrt{2s\sqrt{bx-x^2}}}$ $\epsilon = \frac{m\sqrt{a-u}}{\sqrt{s}}$, and $\frac{mu\sqrt{2}}{\sqrt{s}} = \frac{\dot{x}}{\sqrt{s}}$; let A = the arc whosewerfed fine $=\frac{2\pi}{h}$ to radius 1, n = that to verfed fine $\frac{2\pi}{a}$, and p = that3'14159, then the equal of the correct fluents is $p = B \cdot m \sqrt{2} = A$, from which equation the value of x and $\sqrt{bx-x^2}$, answering to any walue of s, becomes known, shewing the nature of the track of theweight. And when the string becomes vertical, A = p, at which time therefore the arc z becomes given and $= p \times \frac{m\sqrt{2-1}}{m\sqrt{2}}$, whose versed fine $\frac{2u}{u}$ gives u the length of the vibrating string when vertical; let this value of u = e, then in the same manner as before it will be found that at the end of one whole vibration, the arc whose versed fine is $\frac{2u}{\epsilon}$, to radius x, is $x = p \times \frac{m\sqrt{2-1}}{m\sqrt{2}}$, confieq. $\frac{2u}{\epsilon} = \frac{2e}{a}$, and "= = the diffance of the less weight from the pulley at the end of one vibration, and the time of one whole vibration $= \sqrt{a + \sqrt{e}} \times$ $m\sqrt{\frac{a-c}{c}}$, as required.

This que tion was also answered by Mefficure Cullyer, Howard, Rowe, and Mr Mudge, the proposer, whose ingenious solution we shall insert.

XIV QUESTION 891 answered by Lieut. Wm. Mudge, of the Royal Artillery.

I apprehend the numbers expressing the breadth of the ditch at top and bottom, have been interchanged; I shall therefore change the dimensions, and take the ditch as widest at the bottom. Let therefore

ABDC be the end of the ditch, and GHIK the cut; put x = HM any variable altitude of the water within; and $g = 16\frac{1}{12}$ feet; by the data HI: HM: AB = CD: EF $= CD = \frac{2}{9}\kappa, \text{ therefore } EF = CD + \frac{2}{9}\kappa$ $= 30 + \frac{2}{9}\kappa, \text{ and hence } 30 + \frac{2}{9}x \times 1 \text{ mile}$

= 30 + $\frac{2}{5}x \times 5280$ the area of the furface of the water when it is at EF; and the quantity running through the cut GM is equal to $\frac{2}{3}$ of what would run through an equal aperture with the greatest velocity, or that at GH, which velocity is equal to that of a heavy body falling through MH or x, namely $2\sqrt{gx}$, that is, the quantity per second running through MG is $\frac{2}{3}$ MG $\times 2\sqrt{gx}$ or $\frac{8}{3}x\sqrt{gx}$; and hence, dividing this quantity by the surface of the water at EF, the quotient $\frac{x}{440} \times \frac{x\sqrt{gx}}{135+x}$ will be the velocity v per second with this quantity by the surface of the surface o

fecond with which the furface of the water descends; therefore, by uniform motions, $v: -\dot{x}:: i'': i = \frac{-\dot{x}}{v} = \frac{-440\dot{x}}{\sqrt{g}} \times \frac{135 + x}{x^{\frac{3}{2}}}$ the flux of the time of exhausting. And the correct fluent of this, it

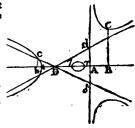
flux. of the time of exhausting. And the correct fluent of this, it being nothing when x = 9, is $\frac{880}{\sqrt{g}} \times \frac{135 - x}{\sqrt{x}} - 42 = t$ the time of exhausting till the depth is x. And when x = 1 inch, or $\frac{1}{12}$ foot, this expression gives $t = \frac{880}{\sqrt{193}} \times \frac{1619 - 84\sqrt{3}}{1619 - 84\sqrt{3}} = 93338$ seconds = 25 hrs. 55 min. 38 sec. the time required.

Had the dimensions been as in the question, or the ditch narrowest above, by a similar process the time of exhausting to one inch deep would be 98330 seconds, or 27 hrs. 18 min. 50 sec. And the time of a complete exhaustion, in both cases, is infinite.

Note, This folution is on the upposition that the velocity of iffuing water is equal to that acquired by a body in falling through the whole height of the surface above the orifice.

XV or PRIZE QUESTION answered by Amicus.

The general equation of the redundant hyperbolas having one diameter only is $xy^{2} = c \cdot x + e \cdot b + x \cdot d + x = cx^{3} + c \cdot e + b + d \cdot x^{2} + c \cdot bd + e \cdot b + d \cdot x + e \cdot bd$, where AB = x, CB = y, Ab = -x, At = e, A1 = b, Aa = d, DA = e + b + d, $Ad = \sqrt{e}$, $CB = \frac{y}{2}$, which at the point where the curve cuts the alymptote $AB = \sqrt{e}$



 $\frac{y}{x + DA}$; this equation reduced is $x = \frac{4cbd}{c - b - d^2 - 4bd}$, for the

walue of the abscissa at the point where the curve cuts the asymptote. Hence it appears, that so long as e-b-d is greater than $2 \sqrt{b} d$, this value of x will be affirmative, and the two hyperbolas adjacent to δ and d will be ambigenous; and since then also e is greater than

b+d, theref. e must be greater than DA or $\frac{e}{2}+\frac{b+d}{2}$; consequently

whilst these two hyperbolas are smblgenous, as must also be greater than a p, and that adjacent to p an inscribed one, and the curve of on of the two species discovered by Mr. Stirling. But if $2 \sqrt{bd}$ be greater than e-b-d, the above value of x is negative, and the point of intersection on the contrary side of Ad; and here DA or a+b+d

 $\frac{a+b+a}{2}$ may be either less or greater than At or a according as b+d is less or greater than e; if b+d be greater than e, then e-b-d is necessarily less than $2\sqrt{b}d$, and the curves are those drawn in Sir Isaac's 17th, 18th, 19th, and 20th figures. But if e

drawn in Sir Isaac's 17th, 18th, 19th, and 20th figures. But if e be greater than b+d, and e-b-d less than $2\sqrt{bd}$, then must DA be less than At, and the above value of x negative; here then the curve is not as described in those figures, but as in that here annexed, the hyperbola adjacent to p cutting its asymptotes, and then including them within itself, while the other two are inscribed ones. If A7 and A7 are unequal, the curve has an oval; if equal, a conjugate point. But if they be impossible, or the equation of the curve be $xy^2 = cx^3 + c \cdot e + b \cdot x^2 + c \cdot e^2 + b^2 \cdot x + ee^2 = x + e \times x^2 + bx + e^2$,

where a is greater than $\frac{1}{2}b$, then $-x = Ab = \frac{4aa^2}{4a^2 - e - b^2}$ at the

in ersection of the curve and asymptote; and if 2a be greater than e-b, the curve will still be as in the annexed figure, but without oval or conjugate point.

No. 86

- Ex. gr. 1. Let e=10, b=5, d=4; then $Ab=10^{\circ}126582$, and 17 = 1 = the diameter of the oval.
- 2. Let e = 10, and b = d = 4.5; then Ab = 10.125, and the oval becomes a point .
- 3. Let e = 10, b = 9, and a = 5; then AD = 95, and Ab = 910.1010 &c; Al and A t being impeffible.

SCHOLIUM. Though these three curves thus differ in figure from those drawn by Sir Isaac for the 10th, 13th, and 14th species, they cannot, with propriety, be faid to conflitute new ones; for they are all included in his descriptions of those species; which descriptions will equally hold for these, word for word, and letter for letter. Moreover, the two species discovered by Mr Stirling ought not to follow Sir Isac's 14th, but the first of them ought immediately either to precede or follow Sir Isaac's 10th, and the second his 13th species.

The QUERY answered by Terricola.

Let 6 be the centre of the burning glass, whose breadth is A L ; and focal length G F; and let o be the centre of the fun, and s v the extremities of his diam. which is at right angles to the line Go. Produce OG to F, and draw IFM perp. to GF; also draw the lines EGM, VGI cutting IFM in 1 and M. Then will IM be the fun's image, F that of his centre, and I and M those of the extreme points of his body s and v. But the denfity of the fun's rays upon the image I M is fup. posed to be the same as at their incidence on AL, and confeq. IM = AL. And the triangles FGM, SGO being fimilar, MF; FG :: SO : OG, whence 2 MF == MI = AL : FG :: 280 = 8V : OG, that is, As the diameter of the glass; is to its focal length; so is the diameter of the fun : to the distance at which the glass must be placed from the sun, to render the density of the rays in the focus equal to that of the incident rays. Q. E. F.

Example. Let the diameter of a burning glass be 2 inches, and its focal length 6 inches. It will be, as 2:6: I diameter of the fun : to 3 diameters of the fun = 2612000 miles, the diftunie required.

N. B. Other answers to all the questions, &c. with some new questions, &c. may be feen in the Diary Supplement, containing 3 sheets, trice only 6 d.

NEW QUESTIONS.

I QUESTION 893, by Mr. James Ashton, of Harrington.

In what time will an annuity of 831. 10 s. discharge a debt of 900 l. allowing interest on each at $4\frac{\pi}{2}$ per cent.?

II QUESTION 894, by Philalethes Cleasbyensis.

Q of Amflerdam fends to R of Paris 2000 crowns, at 91 d Flemish per crown, at double usance, or 2 months, and pays $\frac{3}{20}$ per cent. brokerage; with orders to remit him again the value at 93 d per crown, allowing at the same time $\frac{1}{3}$ per cent. for commission: What is gained per cent. per annum by a remittance thus managed.

III QUESTION 895, by Mr N. Hofkins.

A merchant began trade with a certain sum of money, which amounted at the end of 7 years to 62500, and had accumulated in the following manner, viz. at the end of the 3d year he had just doubled the first sum. The next year he gained the square root of that doubled sum, and 101 more. And the last 3 years he squared the whole. Query the first sum.

IV. QUESTION 896, by Mr John Birch, of Moulton.

Having a conical vessel sull of liquor, standing upon its less end, the radius of which is 20 inches, into which I immersed a cone of equal base and altitude, the convex superficies of which is 2827'44, and is equal to the area of the top of the vessel. Required its content, and the quantity of liquor in ale gallons that overslowed by so doing?

V QUESTION 897, by Mr Matt. Terry, Land-Surveyor, of Askrigg.

To determine the ratio of two elastic balls A and B, so that A, by striking B at rest, shall lose one fifth of its motion.

VI QUESTION 898, by Mr Isaac Saul.

Given the curve superficies of the frustum of a sphere, equal to 1600; and the difference between its solid content and that of a cy-hinder of the same diameter and altitude, equal to 1800; to determine in the diameter and altitude.

VII QUESTION 899, by Mr Alexander Rowe.

A bets B 5 guineas to 10 shillings, that in throwing up 5 halfpence, they shall not come up either all heads, or all tails, once in 4 throws: whether has the advantage, and how much?

VIII QUESTION 900, by Mr William Hardy, of Cottingham.

There is a geometrical square, whose side is 12 inches, sequired the radius of a circle, whose centre shall be in the middle of one of its sides, that shall cut the said square into two equal parts.

IX QUESTION 901, by Mr John Cullyer, of Hingham.

A carpenter having nearly felled a tree 60 feet high, wishes to be informed at what height he must fix a rope to it, of 70 feet long, that when standing on the ground he may draw the tree down with the most case.

X QUESTION 902, by Mr John Farey, of London.

There is a cubical block of marble, whose side in inches is expressed by two digits; the superficies of the block is equal to 864 times the sum of the said digits, and its s lidity is equal to 576 times the square of the sum of the said digits: required the dimensions.

XI QUESTION 903, by the Rev. Mr John Hellins.

How many cubical feet of water will freely flow through a circular hole, of one foot diameter, in a board fixed perpendicular to the horizon, in one hour; the furface of the water being kept always level with the top of the hole.

XII QUESTION 904, by Mr John Bonnycastle.

It is afferted by Mr Castillioneus, in his Commentary upon Sir Isaac Newton's Arithmetic, that any rational cubic equation of the ineducible case, (as $x^3 - 15x = 3$), will have at least one rational root: it is required to shew the truth or falsity of this affertion.

XIII QUESTION 905, by Amicus.

What are the transverse and conjugate axes of the least ellipsis, such that a circle whose radius is unity may be the greatest that can be inscribed in any one quadrant thereof.

XIV QUESTION 906, by Mr. Isaac Dalby.

Suppose the earth an Ellipsoid, having the equatorial and polar diameters 0,93280 and 0,54420 fathoms, respectively: now if a suppose of an expectively and it supposes the placed perpendicular to the horizon in latitude 500 north, longitude 300 east; what will be the observed horizontal angle, taken with the theodolite, between an object placed in its meridian, and the slagssaff supposing the slagssaff is long enough to be seen through the telescope when it is horizontal, and its axis so seet above the surface of the earth?

XV or PRIZE QUESTION 907; by Lieut. Wm Mudge; of the Royal Artillery.

(Wheever answers it before Candlemas Day, bas a chance for 10, and another for 8, Diaries)

It is required to determine the quantity of heat received by the great comet, expected to appear in the beginning of the year 1789, during its passage from the aphelion to its perihelion, the quantity received in one second when at the mean distance of the earth being given equal to q; and to compare the mean heat of the earth to the greatest heat of the comet when in its perihelion: the period of the comet being 1284 years, and its perihelion distance 0.44851, the radius of the earth's orbit being 1.

FINIS,

^{**} The primes for the several solutions have been determined by lot as follows: First, for the Prize Question; to Lieut, Mudge; 10, and Mr John Farcy 8 Diaries.—2d, for the Prize Enigma, to Miss Louisa Amelia Harpur and Mr Wm. Evans each 8 Diaries.—3d, for the general answers to the Enigmas, to Mr Wm Gradidge and Miss Polly Harrison each 8 Diaries.—4th, for the Rebuses, Queries, Sc. to Mr John Daton and Mr James Williams each 6 Diaries. All of whom will please to send for them to Stationers-Hall.

All letters for the use of the Diary must be directed thus, "The Aushor of the Ladies" Diary, Stationers-Hall, London." And they must be firanked or post pid. or they will not be received; and the last of them must be sent before the first of May. — The gentleman who enquires for elipses, may find the calculation of them at large in Huston's Mathematical Miscellany.

OR, A LOYAL L M A N A C K

For the Year of Human Redemption, M DCC LXXXIX.

BEING THE

First after Bissextile or LEAP YEAR,

IN WHICH ARE CONTAINED

All THINGS fitting for fuch a WORK; as;

TABLE of TERMS and their RETURNS;
The Full, Changes, and Quarters of the Moon;
The Rifing, Southing, and Setting of the SEVEN STARS,
and other Fixed Stars of Note; the Moon's Age, and

A TIDE TABLE fitted to the fame;
The Rifing and Setting of the SUN; the Rifing, Southing,
and Setting of the MOON; Mutual Aspects, Monthly Observations; and many other Things, useful and profitable.

UNTO WHICH ARE ADDED,

Aftrological Observations on the Four Quarters of the Year,

An HIEROGLYPHIC, alluding to these present the A remarkable CHRONOLOGY; the Ec

And other MATTERS both curious and With a particular Judgement of the Early and many other Things relating to Aftrages

By FRANCIS MOORE, Physician.

LONDON,

Printed for the COMPANY of STATIONERS, 1789.

And Sold by ROBERT HORSFIELD, at their Hall in LUDGATE STREET, [Price Nine Pence, stitched.]

The foregoing Table explained.

OTE, That the Moon's Age being taken Notice of by the Rule in this TABLE, you may obtain the Time of HIGH-WATER at all the Places above named. Observe, When the Moon is one or fixteen Days old, it is HIGH-WATER at London, Tinmouth, Hartlepool, &c. at 3 o'Clock, and 48 Minures past. Observe the same of the res, which is plain to the meanest Capacity. The Day of the Moon's Age you have in the fixth Column on every Lest-hand Page of the Calendar.

KINGS and QUEENS from the Conquest.

Kings Names.	Began their Reign.	Reigned Y. M. D.	Since their Reigns.	Buried at			
Will. Conq. W. Rufus Henry I Stephen	1066 Oct. 14 1087 Sept. 9 1100 Aug. 2 1135 Dec. 1	35 3 29	672 Sept. 9 689 - Aug. 2 654 Dec. 1 635 Oct. 25	Caen, Norm Winchester Reading Feversham			
The Saxon Line restored.							
Henry 2 Aichard 1 K. John Henry 3		xon Line 34 8 11 9 9 0 17 6 13 56 0 28		Fonteverault Fonteverault Worcefter Westminster			
Edward 1 Edward 2 Edward 3 R'chard 2	1272 Nov. 16 1307 July 7 1327 Jan. 25 1377 June 21	34 7 21 19 6 18 50 4 27	482 July 7 462 Jan. 25	Westminster Gloucester Westminster Westminster			
Henry 4 Henry 5 Henry 6	The L 1399 Sept. 29 1413 Mar. 20 1422 Aug. 31	ine of La	incaster. 1376 Mar. 20	Canterbury Westminster Windfor			
Edward 4 Edward 5 Richard 3	The 1461 Mar. 4 1483 April 9 1483 June 22		306 June 22	Windfor Unknown. Leiceffer.			
The Families United.							
Henry 7 Henry 8 Edward 6 Q. Mary Q. Elizabeth	1485 Aug. 22 1509 April 22 1547 Jan. 28 1553 July 6		242 Jan. 28 236 July 6	Windsor Westminster Westminster			
The Union of the Two Crowns							
fames I Charles I Charles 2 James 2 Will & Mar.	1603 Mar. 24 1625 Mar. 27 1649 Jan. 30 1685 Feb. 6 1689 Feb. 13	22 0 3 23 10 3 36 0 7 4 0 7 13 9 23	140 Jan. 30 104 Feb. 6 100 Feb. 13	Weftminster Windsor Weftminster St. Germain Westminster			
The Union of the Two Kingdoms. Q. Anne George 1 George 2 George 3 The Union of the Two Kingdoms. 1702 Mar. 8 12 4 24 75 Aug. 1 Westminster 62 June 11 Hanover 62 June 11 133 4 14 29 Oct. 25 Westminster 63 1760 Oct. 25 Crowned Sept. 22, 1761.							

A TABLE of the Equation of Time for regulating Clocks and Watches for 1789. Note, fa. Clock too fast, that is, your Clock, to be set right, must be so much faster than the Sun Dial. slo. Clock too flow, that is, your Clock must be so much slower than the Sun Dial.

5	Jan	nary	February		March		April		N	1a y	June	
1	41	a.23"	14 'fa. 9"		12' fa.33"		3' fa.47"		3' fl.II''		2' fl.33"	
3	5	19	14	2 I	T2	7	3	10	3	25	2	14
5	6	13	14	31	11	40	2	3 5	. 3	36	r	54
7	7	4.	14	37	II	10	2	Θ	3	46	1	33
9	7	54	14	40	10	3 9	I	26	3	53 58	I	10 .
[I	8 .	42	14	39	10	7	0	52	3	58	0	47
13	9	27	14	36	8	33 58	0	2 I	4	0	0	22
15	IO	ġ	14	30	8	58	:flow	, 10	4	. ©	fast	3
17	10	9 48	14	2 I	8	23	. 0	39	3	58	0	29
19	11	25	14	9	7	47	I	6	3	54	0	55
21	11	59	13	54	7	10	1	32	3	47	. I	21
23	12'		13	37	† 6	38	T	57	3	38	1	47
25	12	30 58	13	18	5	56	2	17	3	27	2	13
27	13	22	12	57	5	19	2	37	3	13	2	38
29		43	<u> </u>		4	42	1 2	55	2	59.	3	2

D	J	uly	A	August		Septemb.		October.		vemb.	Decemb.		
3 5 7	3' 3 4 4	fa.26" 48 9 28 46	-	78.52 ⁷⁷ 43 32 18	o' E I 2 3	fl. 24" 2 42 22 3	10' 11 11 12 12	fl. 32" 9 45 19 52	16/ 16 16 16	1.14" 14 10 3 53	10/ 9 8 7. 6	35 45 53 59	
9 11 13 15 17 19	4 5 5 5 5 5 5 5	3 17 30 41 50	4 4 3 3 2	44 24 1 37 10 42	3 4 5 56 7	44 26 8 50 31	13 14 14 15	22 59 16 40 2	15 15 15 14 14 14	39 22 1 37 10	6 5 4 3 2	4689998	
23 25 27 29	6 6	2 4 4 4 1	2 I I	12 40 6 31	78 9 9	54 35 15 54	15 16 16	36 50 0 8	13 12 11	6 29 49	fast I 2	52 51 (0	

How to fet a Clock or Watch by this Table. For example, Jan. he 1st, I find, by looking into the Table, that a Clock to be right must be 4 Minutes 23 Seconds faster than a Sun Dial; therefore 1 fet it to much faster accordingly. And so of the rest. Twelve o'Clock in the best Time to set a Clock or Watch by a Dial.

Note. A Sun Dial shews Solar or Apparent Time; but a Clock, &c. should be set to equal or Mean Time, as the Table directs, to go true.

A TABLE of TERMS and Returns for the Year 1789.

L				<u> </u>
Hilary Term begins Jan. 23,	ends I	cb. I	2.	
Returns or Effoign Days.	Exc.	Ret.	Ap.	W. D.
In eight Days of St. Hilary, - Jan. 20				
	28	20	₹0	Friday
On the Mor. of the Purif. of the Bl.V.M. Feb. 3	4	-71	3 6	Friday
In e ght Days of the Purif. of the Bl. V. M. o	10	11		
77-077				
Easter Term begins April 29,				
In fifteen Days of Eafter - Apr. 26	27	28	29	Wednefd.

May 3 From Eafter Day in three Weeks From Easter Day in one Month 10 11 12 13 Wednesd From Eafter Day in five Weeks 18 Wednesd 17 10 20 On the Mor. of the Ascention of the Lord 22 Monday 23

ends July r. Trinity Term begins June 12, On the Morrow of the Holy Trinity June 8 Friday 9 10 In eight Days of the Holy Trinity 16 Wedneid 14 15 17 In fifteen Days of the Holy Trinity Wedneid. 2 I 23 28 Wedneld. From the Dayof the H.Tr. in 3Weeks 29 30

Michaelmas Term begins Nov. 6, ends Nov. 28. On the Morrow of All Souls Nov. 3 Friday Monday On the Morrow of St. Martin 14 16 12 13 21 Saturday In eight Days of St. Martin 181 19 20 In fifteen Days of St. Martin Saturday 25 26

N. B. No Sittings in Westminster-Hall on the Second of February, Ascension-day, and Midsummer-day.

The Exchequer opens eight Days before any Term begins, except Trinity, before which it opens but four Days.

Note, The first and last Days of every Term are the first and last Days of Appearance.

	the state of the s
Common	Notes for the Year 1789.
Golden Number Rpact Dominical Letter Cycle of the San Sundays after Epiphany Number of Direction Septuagetima Sunday	Lent begins - Feb. 23 Eafter-day - Apr. 12 Rogation Sunday - May 17 Afcenfion-day - 21 Whit Sunday - 31 Sundays after Trinity - 24 Feb. 8 Advent Sunday - Nov. 25
المستدر ويسترك	•

INTRODUCTION.

In which are contained Rules for judging of the Weather by the Barometer.

HE great Demand from the Publick for MOORE's ALMANACK has not only testified its kind Reception in the World, but, as a further Proof of the high Estimation in which it is held, has induced other Presses to fend forth spurious Productions under the same Signature. one pretending to have vested a Right in the Company of Stationers formerly of printing the same, and that now he has transferred the same to Meffrs. Pearson, &c. Birmingham, with indeed as great Propriety as I might give my Share of the Tower of London to the Great Mogul; while another gives the World to know, that "all Almanacks, published under the Name of such an Impostor, must (to use his own Words) be false and counterseit. That this self-celebrated Astronomer, Mathematician, and Professor of Astrology, &c. never did calculate the Eclipses, the New, Full, and Quarter Moons, nor the Moon's rising and fetting, &c. for that Work; nor is he capable of doing them.' From the above it evidently appears, that the original and true Performance still remains in the Hands of the Company of Stationers, who have from Time to Time employed, fince the Decease of the ingenious Mr. Francis Moore, such Hands as they thought most proper for a Work of that Consequence. The present Writer (unaequainted with the abovefaid Authors) wishes not to enter into any Dispute : but, following the Steps of his great Predecessor, as far as his Abilities will admit, will at all Times endeavour not to deceive the Credulous and Unwary with Suppositions counterfeit and spurious; but write only such Things as are founded upon Facts, or built upon the firm Rasis of judicial Aftrology, as delivered by the Ancients, and verified by long Experience. For which Reason I shall here lay down a Set of the best Rules for judging of, and predicting, the Weather by the Barometer, which Facts and Experience have yet furnished us with. These Rules, which may be called Philosophical, together with the Astrological Ones contained in the last Column of the first Page of each Month in the following Calendar, will form a true and complete Diary of the Weather for the whole Year; very useful to all Farmers, Travellers, Seamen, and in short all Persons, whether they be sick or in Health; for hence the Physician and his Patients may regulate the Course of their Medicines; hence the Countryman may affure himself of the approaching State of the Weather, and regulate accordingly his Plowing, Sowing, and Reaping; hence the Traveller may know when to make his Journey in the best Weather; and hence even the Fair Sex may know when the Weather, finding like themfelves, will render their Walk delightful. For, like as the astrological Predictions of the Weather enable us to know the general State f it at any Distance of Time, and for large extended Continents and Nations; fo the Indications of the Barometer, or Weather-glass, serve on short Notices, and for a few Days, and are commonly the Effect of partial and temporary Variations and Changes in the Weather, as regulared by the Stars and Planets, produced by Winds and the peculiar Situations Situations of Countries as to Seas and Lands, Latitude and Longitude. These Rules, which are the latest that have been made, are adapted to our Isle by the ingenious Mr. Patrick, and are as follows:

RULES FOR THE WEATHER BY THE BAROMETER.

RULE 1. The rifing of the Merc. presages, in general, fair Weather; and its falling, foul Weather, as Rain, Snow, high Winds, and Storms.

2. In very hot Weather, the falling of the Mercury indicates Thunder.

3. In Winter, the rifing prefages Froft; and in frofty Weather, if the Mercury fall three or four Divisions, there will certainly follow a

Thaw; but, in a continual Frost, if the Mercury rise, it will certainly snow.

4. When foul Weather happens soon after the falling of the Mercury, expect but little of it; and, on the contrary, expect but little fair Weather when it proves fair shortly after the Mercury has risen.

5. In foul Weather, when the Mercury rifes much and high, and so continues for two or three Days before the foul Weather is quite over,

then expect a Continuance of fair Weather to follow.

6. In fair Weather when the Mercury falls much and low, and thus continues for two or three Days before the Rain comes, then expect a great deal of Wet, and probably high Winds.

7. The unfettled Motion of the Mercury denotes uncertain and

changeable Weather.

8. You are not so strictly to observe the Words engraved on the Plates (though for the most Part it will agree with them), as the Mercury's rising and falling; for if it stands at much Rain, and then rises up to changeable, it presages fair Weather, although not to continue so long as it would have done, if the Merc. were higher, and so, on the contrary, if the Merc. stood at fair, and sall to changeable, it presages soul Weather, though not so much of it as if it had sunk down lewer.

From these Observations it appears, that it is not so much the Height of the Mercury in the Tube, that indicates the Weather, as the Motion of it up and down: Wherefore, in order to pass a right Judgment of what Weather is to be expected, we ought to know whether the Merc. is exactly rising or falling, to which End the sollowing Rules are of Use.

(1st) When the Surface of the Mercury is convex, standing higher in the Middle of the Tube than at the Sides, it is a Sign that the Mer-

cury is then rifing.

(2d.) When the Surface of the Mercury is concave, or hollow in the

Middle, it is finking. And

(3d.) When it is plain or level, or rather a very little convex, the

Mercury is stationary.

(4th.) When the Glass is small, shake the Tube; then, if the Air be grown heavier, the Mercury will rise about half a Division higher than it stood before; but, if it be grown lighter, it will fink so much. This proceeds from the Mercury sticking to the Sides of the Tube, which prevents the free Motion of it, until it be disengaged by the Shock. Therefore when an Observation is to be made by such a Tube, it ought always to be shaken first: for sometimes the Mercury will not vary of its own accord, until the Weather arrive which it ought to have predicted.

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No Draught from fam'd Parnassus Stream, Or sabled Song, the Muse requires; The God of Seasons is her Theme, And Nature all around inspires; Wherever we tread, whatever we hear or see, Great First and Last, to chant the Praise of thee.

-		True Till and			an			alle of thee.
	W	Faits and	0	2.8	7	D	rifes	Mutual Aip.
D	D	Festivals	3	Signs			l fets	
	_		"	l	**	المنا	a icts	THE TO OPPLIED TO
_	Ť	Circumcision	1-		_			
1	<u> </u>	Circumcinon	12	feet	6	9	a 36	Dark and
	F		13	toes	7	10	41	D 7 2
3	<u>S</u>	2 S. aft.Chrift.	14	head	8	11	46	
4	D	2 S. ait. Chrift.	1 6	and	9		orn	ther.
	M	Old Christm.d.	1.2	face	10			
5	T	Epiphany			1		54	Frosty.
	ŵ			neck	I I I 2	2	4	Twelfth-day
7	*	_		throat	ΙŽ	3	14	* 7 4
	T	Lucian		arms	13	4	25	Windy, but
` 9	F		20	should.	14		20	dark and
10	S		2 1	breast	15	5	26	
11	D	r S. aft. Epiph.		ftom.	F	D	rifes	fome time
12		Plow Monday	1	heart		ı -		
13	T	Hilary			17	5	442	Old N. Y. day
13	127	O.C T 1		back	18	8	8	Camb. Term beg.
		Oxf. Term beg.	25	bowels	19	8	31	804
15	T		26	belly	20	9	53	6 8 9
16			27	reins	21	ıί	13	Var weather.
17	S	O. Twelfth d.	28	loins	22	m	orn	8 4 8
18	D	S. aft. Epoph.		Prisca		0		Q. Ch. b. d. k.
10	M	• • •		lecret	23	1	30	-
20	T	Fabian.			24	I	45	848
	ŵ			memb.	25	2	55 58	More mild,
			2	hips	26	3	58	9 0 A
1.		Vincent.	3	thighs	27	4	52	but conti-
23		Hilary Term b.	4	knees	28	5	38	nues not
24	S		١,	and	29	5	17	long
35	D	3 S. aft. Epiph.	6	hams	30	6	48	Con. St. Paul
26.	M	Ī .		legs	Ň	۵	fets	Now dark,
27	T	Pr. Aug. Fr. b.	ا (ancles	- 1			
28	W		-	C	2		a 14	but cold.
	~			fcet	3	78	17	* 5 🗣
29	4	76. 61 T		and	4	8	2 I	Continues
30	ŗ	K. C. I. mart.	11	toes	ξ	9	25	variable to
31	S	•	12	head	5	10	32	the end.
							3-1	

The 11 day, at 14 aftern. Jupiter The 23 day, at 10 morn. Venus The 25 day, at 3 aftern. Mars The 26 day, at 3 morn. Mercury The 28 day, at 6 aftern. Saturn

is with

_	1	116	20	ua	y, a		artern. Saturn
		un	S	un	Me	on	Nr. 11 016
D	ri	es	ſ	ets	Sou	ths	Monthly Observations.
-	-	-	-				
1	8	4	3	56	3 8	40	Astra voluntatem hominis, et liberum ar-
2	8	4	3	56	4	22	bitrium indirecte et per accidens agunt dum directe temperatum significant et disponunt,
3 D	8	3	3	57	5	3	arrecte temperatum jampeant et asponant,
D	8	3	3	۲8	5 6.	3 46	FIRST Quar. 4 day, at 4 aftern.
5	8	2	3	58	6.	32	
6	8	I	3	59	·7	2 I	
1 7	8	0	4	Ó	8	14	speaks a sound Head and a good Heart.
7 8	7	59	4	. I	9	11	But as there are Quack: in Physic, in Law,
9	7	<u>ś</u> 8	4	. 2	10	I.	hay even in Divinity, who make great boast with little or no Knowledge, as
Ió	7	57	4	3	11	13	
D	7	56		4	mo	rn.	FULL Moon 11 day, at 6 aftern.
12	7	55	4	5	i	13	FOLL MOON II day, at o altern.
13	7	54		6	1	ΪĪ	fo I know no better Criterion to judge of
14		52	4	8		7	Impostors by, than the foregoing Rule;
	7	51				6	that when we are imposed upon by large
15 16	7			9	3		Pretences, and high founding Words, we
	7	50	4		3	52	1 4 4
17 D	7	49	4	11	4	42	1
	7	47	4	13		32	
19	7	46	4	14		23	Acrethe Cale with the Other Arreand
20	7	45	4	15	7 8	14	Sciences, to also it is with that continue
21	7	43		17	0	5	Science of Astrology; nor is it to be
22	7	42	1	18	8	56	marvelled at, when we confider the in-
23	.7	40	4	20	9	46	nate Defire implanted in Nature to look into the hidden Things of futurity, that
24	7	39	4	2 I	10	35	vile Impostors and ignorant Pretenders
D	7	37	4	23	ΙÏ	22	should set up for Professors of an Art, the
26	7	36	4	24	O a	ı 6	
27	7	34		26	0	48	NEW Moon 26 day, at 6 mora
28	7	33		27	I	30	Darling of Antiquity, and the Admiration of Princes; when at the same Time it
29	7	31		29	2	11	appears, by their annual Productions,
130			4	31	2	53	that they are not able to express their
31		28		32	3	35	
•••	<u></u>			2-,		<u>,,,</u>	

10 FEBRUARY XXVIII Days.

Ye Sons of Art, how vain your Trust, Who raise the Arch triumphant high: The column moulders into Dust, While Time on his swift Wings does sly, Through ages onward till the very Spot, Where once it proudly rear'd, shall be forgot.

		77 11010 01110	_					1.00
	W		0	D'a	D	ע	rifes	Mutual Afp.
D	D	Feitivals	₩	Signs	A	and	l fets	and Weather.
_			_		_			117:- J.
1	10	S. aft. Epiph.	13	face	8	11	a 41	Windy,
2	M	Cand.day Purif	14	neck	8	m	orn	with fome
_	T.	Rlase	ΙÇ	and	9	0	49	downfall;
1	W		16	throat	ſΟ	I	56	and weather
7	Т	Agath a	17	arms	ΙI	3	4	upon the
5	F		18	should.	I 2	4	4	whole not
7			19	breast	13	4	55	8 4 9
ģ		Septuages. S.	20	ftom.	14	5	30	much dif-
~	M		2 I	heart	īζ	5	14	ferent from
79	Т			baçk	15 F	D	rifes	the former
11			22	bowels	17		a 18	month, ef-
	T	Hilary T. ends	24	belly	18		42	pecially at
	17	O Candi Day		reins	19	1		- a b b
13	١٥	Valenţine		loins		11		the begin-
14	12	n		lecret	21			ning, viz.
15	D M	Sexages. S.		memb.			0111	cold winds,
16	IVI				22	1	30	from on
17	T W		29	hips	23		44	fnow, or
18	W	1	×	thighs	24			rain, and
τo	ľΓ			knees	25 26	3		flabby wea-
2Ó	1 .		2	and	26			_ A 4 \$
2 I	13			hams	27		49	ther.
22	D	Quinquag. or	Sħ	rove S.	28	5	16	Weather
22	M	_	15	ancles	29	5	41	unsettled,
70	T	Shrove Tuefd.	6	St. Mat.	30	6	I	Pr. Ad. Fr. b.
27	w	Afti Wednesd.	1 7	St.Mat. feet	Ń	D	iets	and fo con-
-6	Т	Shrove Tuefd. Ash Wednesd.	18	toes	2		a 18	tinues to the
20	F		a	head	3	7 8	25	end.
27 28	lŝ	1	10	face	1 4		32	
20	_	•			. 7	,	5-	•

The 8 day, at 4 morn. Jupiter The 22 day, at 7 aftern. Venus The 23 day, at 7 aftern. Mars The 25 day, at 1 aftern. Sarurn The 26 day, at noon, Mercury

is with the Moon.

ı	_					77		son, wereary
	M D	S	in es	Sa fet			oon iths	Monthly Observations.
	D 2 3 4 5 6 7 D 9 10 1 1 2 1 3 1 4 D 16 17 8 19 20 1 D 2 3 2 4 2 5 6 2 7	77777777777777766666666666666666	26 24 21 11 15 15 15 15 15 15 15 15 15 15 15 15	444444444444455555555555555555555555555	346 337 341 346 344 344 357 357 311 315 317 311 315 317 317 317 317 317 317 317 317 317 317	4556 78 90 11 m 0 1 2 3 4 5 5 6 7 8 9 0 0 1 1 0 0 1	a 196 56 49 46 45 46 45 46 45 46 45 30 1 6 58 50 41 308 3 47 29 13 35 35	To Authors of this Stamp, whose Writings only serve to betray their Igno-FIRST Quar. 3 day, at 9 moin. rance, it may be truly faid, Cease, Scribbler, cease; why all this mighty Pairs, To tell the World the Lord deny'd thee Brains? Should the vain Imposfor pretend it is the thirst of Fame inspires him, fondly FULL Moon 10 day, at 4 more. imagining that his Works shall survive him, and keep his Name in remembrance, when his Body shall be laid in Dust; to such a one the following Lines of the celebrated Mr. Pope, are justly applicable: LAST Quar. 16 day, at 10 might If ravish'd with the whistling of a Name, See Cromwell dame'd to everlasting Fame. And in pity to his Ignorance we may honestly add this sage Advice: Forbear to write, content thyself to read; An As in Lion's skin's an As indeed. NEW Moon 25 day, at 1 morn. But we shall here leave the felf-important Prognessicator, and his deluded Readers, with the following Ressection:
١	28	10	36	15	24	2	19	Quis vult decipi decipiatur.

Then, Artist, of thy Work, oh! spare
To praise, and call it firm and good:
Its Walls let Babylon declare,
Or say ye now where Troy Town stood;
Those Turrets once so proudly rear'd on high,
Long in Oblivion sunk, for ever hid they lie.

<u> </u>		ong m oblivior		11114, 101						-
M	ıW	1 17. A. cu l	0	3's	D) ri	fes	Mu	tual	Aíp.
		# mysts			Ã	and	Cana		W	ther.
ען	D.	Festivals	×	Signs	•	ana	ICCR	20:10	** 6.	#FTF21 .
۔۔۔ا	_				<u>. </u>		-		-	
۱ ـ	_		۱:	neck	۔ ا			,	David	į
1	ען	S. in Lent.			5	102	-39			a
1 2	M	S. in Lent.	12	and	5	II	48	Gloon	nv	
1 -	T		1.0	throat		mo			Ó	ħ
			13	Imioat	78					2
4	W	Ember Week.	14	arms	8	0	54	weath	er	
1 2	T	Tringer At com		fliould.	9	1	£2	with f	ักดเซ	,
5	F						23			
1 20	F			breast	10	2	40	or rai	ns.	
۱ م	S	Perpetua	7.5	ftom.	11	3	33	Δ	14	Ā
8		- 0.70							-	
۱۶		2 S. in Lent.		heart	12	4	10	_	Ø	Å
9	M		10	back	13	4	42	Δ	0	21
			7	bowels			7-	Wind	wie1	h_
10					14					
111	W		2 I	belly	F) ri	íćs i	inow o	or ra	in.
12	r	Gregory		reins	16	7 a	20	ે તે	þ	ያ
1		رادوات			10	/ / ~	34			
13	F		23	lòins	17	9		Frost		
14			3	fecret	ıģ	ıé	70	storms	driv	rinor
		'	-4	iccict		-	• 4			:5
15	D M	3 S. in Lent.		memb.	19	II	33	in mar	ıy	
げる	M	J 1	-6	hips	20	mo	rn	places	•	
		St. Patrick					-0	,		•
117	<u> </u>	75 75 755 0	27	and	2 1	0	38	ું	8	\$
17	W	Edw. K. W. S.	28	thighs	22	I	32	ď	♂	ğ
	T			knees			16		2	¥
19			29	RIICOS	23	1			•	. *
20	F		Y	hams	24	2	55	Great	aite	-
21	S	Benedic t		legs	ء د ا		36	ration	abo	ut
			1	زود	25	3				
22	D	Midlent S.	2	and	26	3	50	the ne	, iA	
23	M	•	2	ancles	27		12	moo n		
	T		1 2	feet	28				7 9	•
24			1 4	ncec			34			
25	W	Lady-day.	5	toes	29 N	4	53	6	ħ d	•
26	T		えん	head	N	1 n f	e ts		4 8	2
27	F		1 7:	and	2	7 a	131	Storm	y w	ca-
27 28	IS		18	face	3	8 a	30	ther,	with	•
مما	ļ.,			neck			وړ.	cold l	ail a	nr.
149	11	g 5, in Lente	19	inces.	4	.9	54	ا منځا		71
130	M	5 S, in Lent.	10	throat	5	10	54	mow.		
31	(T	h: 4		ar nas	5	11	56		24.	8
2.	-/-			7.4			٠×			

The 7 day, at 11 morn. Jupiter
The 24 day, at 3 aftern. Mercury
The 24 day, at 11 aftern. Mars
The 25 day, at 2 morn. Saturn
The 25 day, at 4 morn. Venus

is with the Moon.

	T	he	2	5	da	y, a	t - 4	morn. Venus
M D		in Es	г	uı et		Mo Sou		Monthly Observations.
10 10 10 10 10 10 10 10 10 2 2 2 11 2 2 2 2	66666666666666666666666666666666666666	34333333333333333333333333333333333333	5 4 2 0 8 6 4 2 0 8 6 4 2 0	555555555555566666666666666666666666666	26 30 33 33 33 33 33 33 33 33 33	1 2 2 3 4 5 6 7 8 8 9 10 11 0 1 I	54 45 39 31 31 31 31 31 31 31 31 31 31	Quantity, the Variety and Contrariety of the Aspects, as well as the different Natures of the Bodies which form them, bring such a mysterious Scene, before our FULL Moon 11 day, at 2 aftern. Eyes, as surpasseth the Depth of human Understanding, and nothing but the Hand of Time can unravel; and this only for us to wait with Patience, until the Finger of God shall point out the Event. True it is, that The Heavens declare the Glory of God, and the Firmament sheweth his won-LAST Quar. 18 day, at 2 astern. drous Works. But at the same Time it is also to be observed, that His Works are past sinding out. Sense and Silence are particular Friends, and it is much better to bridle the Tongue than to talk at random. The most that can justly be said is, that as we foretold no great good to the World in general at the Conclusion of the old NEW Moon 26 day, at 7 aftern. Year, so neither do we foresee any promising Prospect of the Advent of the present One. Certainly the beginning
l.	311	5 3	34	16	26	1 3	4:	aland the great Variety of Aspects Bespeak

14 APRIL XXX Days.

Search every Land in every Coaft,
Through the wide Circuit of the Sun;
Little, I ween, has Man to boaft,
And yet behold that little done:
Ah, very foon shall vanish from our Eyes,
Like Shades of Night when Sol begins to rife.

The 3 day, at 8 aftern. Jupiter The 21 day, at 9 aftern. Saturn The 23 day, at 5 morn. Mars The 23 day, at 2 aftern. Mercury The 24 day, at 2 aftern. Venus

is with

							aftern. Mercury aftern. Venus						
M D		:::11 ::::es				loon uths	, Monthly Observations.						
1 2 3 4 D 6 78 9 10 11 D 13 14 15 16 17 18 D 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 0	155555555555554444444444444	208 17 15 13 11 97 53 15 55 56 46 45 44 41	666666666666666666666666666666666666666	30 32 34 36 38 40 42 43 45 47	5 6 7 8 9 10 11	344 300 26 21 158 27 150 57 47 438 31 21 9 55 391 391 391 391 391 391 391 391 391 391	The Year is unered in with some eminent Configurations, and mostly of the malign kind. Upon one of these, at the latter End of March, take the Words of Avenaria, who says: FULL Moon 9 day, at 11 night. Nam saspexerit Mars opposite Aspectuaut Quarte, tune convertetur Mundus in						

Your Pyrotecnic Arts prepare;
Your boasted Lights, see how they sly;
Hark! how they rattle through the Air,
And ravish'd view them soaring high.
God sends a Comet; see the mighty Odds,
Then own how mean your Works compar'd with God's.

	ich own now in	-	70		RO C				77	
MW		10	Signs	19		iles		tual	Αſį	P,
DD	Festivals	8	Signs	A	and	fets	and	Wea	the	r,
		-	-	- -	- ∤	<u> </u>			-	_
I F	St. Phil. & Ja.		itom.	18	or	n 23	May	ap-		
2 S	1		heart	8	3 0	57	pears	to		
3 D	3 S. aft. Easter	13	back	19	I	27	Inv. o	f Cri	2/s•	
4 M	ſ	14	bowels	IC		53	begin	with	h	
ζT			belly	11	2	17	fine fl	owe	rs,	
5 T 6 W	J. Ev. A. P.L.	16	reins	1 2	2	42	after	fome	;	
7 T 8 F	ľ	17	loins	13	3	7	time,	ftror	ng	
8 F	1		fecret	14		37	winds	and	•	
9 S		10	memb.	F	ďri	fes	fome (dark		
	S. aft. Easter	20	hips	16		17		Θ	Ъ	
11 M			thighs	17	ıó		and w	ct	•	
12 T	Old May-day		knees	18	10	56	6	•	Ř	
13 W			and	19	11	35	*	Ď	Ř	
14 T	-	24	hams .	20	mo	rn	weath		•	- 1
15 F	i	2 5	legs	2 I	0	5	603	5. *	0	24
16 S			ancles	22	0		* 5			
	Rogation S.		fect	23	0	51	046	· *	21	8
18 M	real action of		and	24	ıI	10	- · •		•	٦
	Q. Charl. b.		toeş	25	r	20	Dunsta	1/2		- 1
20 W	4. 0		head	26	Ţ	50				٠
	Ascension		face	27	2		Sudde	m		l
	Prs. Eliz. b.		neck	28	2		flower			- 1
23 S			and	29	3		More			- 1
	Sun. aft. Aft.	3	throat	Ń	Ď.		rene.			- 1
25 M	East. Term ends	4	arms	2			Hail o	r rai	n.	ł
16T	Augustin Abp.	21	hould.	3	9	30	The a	ir in	-	- 1
27 W	Ven. Bede.	-	breast		10	22	lined	to		- 1
2817	Oxf. T. ends		ftom.	7	10	59			ğ	- 1
29 F	K. C. II. Reft.	6li	heart	5		301	icat.	~	₹.	ŀ
30 S			back	7	11	57	. 6	0	ያ	-
276	Whit Sunday	. 7	howele	٤l	mon			J	•	1
72	IT WILL DRIVERS	10	JUW CIS I	-01	וטאו	*** [-1

The 1 day, at 6 morn. Jupiter The 19 day, at 4 morn. Saturn The 22 day, at 7 morn. Mars The 24 day, at 7 aftern. Venus The 26 day, at 10 aftern. Mercury The 28 day, at 7 aftern, Jupiter

is with the Moon.

M			-	0	1 34		
		תיט	•	Sun		00n	
D :	r	ifes.	1	fers	So	uths	Monthly Observations.
-	-	-	-		ł		201011thiny Obicivations.
		36	7	24	1		Takanta' i an
	, .		L'			a 27	I would not wish any particular town
.2	1	34	7	26	6	21	FIRST Quar. 2 day, at 3 aftern.
D	4	32	7	28	7	13	dai. 2 day, at 3 aftern,
4	4	31	7	29	8	5	of indeed any particular country to truf
	۸.	_	1.	-	8	_	
. 2	1	29	7	31		"	
0	4	27	7	33	9	49	
74	4	25	7	35	10	43	By letters which I have received from every
8	4	24	7	36	11	38	
٥.	4	22		28		iorn	
. 9 D	7		7	38	1		FULL Moon 9 day, at 9 morn.
	7	21	7	39	0	33	
11	4	19	7	41	1	28	
12	4	18	7	42	2	22	part of the nation, I find that the ancienti
13	À	16	7		-		I HAVE UDON THE Whole given their mile
	, T	_	1"	44	3	14	
14	7	I 4	7	46	4	4	Fig. to the Wildle Jane of Cinest Reights and
15	4	13	7	47	4	51	Ireland, yet I have letters enow to convince the world that as I have for the benefit of
16	4	12	7	48		36	THE PENEL WE THEN TOL THE DEDEDE OF
D	4	rc	7		5		×
18	-	-	١.	50		19	LAST Quar. 17 day, at 2 morn.
ľ .	4	9	[7	51	7	. 0	
19	4	7	7	53	7	42	the public kept'a correspondence with such
20	4	6	7	54	. 8	25	4 YUADUEV OF IEBIDDE 2nd Antenna a comin
21	4	e.	1.				UML DEV DECHESIONS are unon chairmhala
22	T	5	7	55	9	9	verified upon that particular; and there-
	7	3	7	57	9	56	
23	4	. 2	7	58	10	45	• ,
Ð	4	1	7	59	11		NEW Man : 1
e;	4	0	8	a		2 32	NEW Moon 24 day, at 10 night.
26	1	58	8			-	
	3			2	I	29	IOPS INIGHT HOW THE THE OF EVEN MOTSER.
27	3	57	8	3	2	2 6	ing the reputation which this performance
58	3	56	8	4	3	22	has long ago acquired, upon any new balls
20	3	55	3	5	-	17	ACDEME, DOWEVER plantible which has not
30	3		8	6	4	io	flood the test of ancient observations.
	3	54		0	5	10	FID OT O
P	<u>L3.</u>	<u>53 l</u>	8	71	<u>.</u> Q.	11	FIRST Quar, 31 day, at 8 night.
_		-		ED579.79	46.14.0	-	

B

Thou great Copernicus; to thee
Are Praises due while Time endures;
And he who made the Orrery
'Mongst Mortals sure great Fame insures.
'Yes Artists ye have done your Shares no Doubt:
But trifling yours to his who wheels the Orbs about.

	В	ut trining you	rs to) 1112 WIII	, w.	accia circ	Cito about
M	W	Fafts and	0	D's		D rifes,	Mutual Asp.
D	D	Festivals	L	Sig	A	& lets	and Weather
_			_				
,	М	Whit Monday	113	belly	9	0 m 21	Nicomede
2	Т	Whit Tuesday	12	reins	10	0 46	Pleasant and
3	w	Ember Weck	13	loins	11	1 - 10	warm
4	Т	K. Geo. III. b	14	fecr e t	12	1,36	Weather,
	F	Pr. Er. Aug.b	15	mem-	13	2 7	Boniface.
5	s		16	bers	14	2 43	apparently
7	Ī	Trinity Sund	417	hips 🖠	F	D rifes	
8	M		18	thighs	16	8 a 47	lowed with
9	T		19	knees	17	9 29	
10	W.	Oxf. Term beg.	20	hams	18	10 2	0 6 8
11	Т	St. Barnabas	21	legs	19	10 29	Corpus Christi
12	F	Trin.Termbeg	22	and	20	10 52	Rain, perhaps
13	S		23	ancles	21	11 12	_ O 5
14	.*	^ -G. Trin	24	feet	22	11 31	Thunder
15	M	' '	25	toes	23	11 50	about this
16	T		26	head	24	morn	Time, but
17	W	St. Alban	27	and	25	0 10	upon the
18	Т		28	face	26	0 33	△ Þ ¥
19	F.		28	neck	27	0 59	whole
20	S	Tr.Ed.K.W.S.	29	threat	28	1 30	agreeable
21	1	2 S. aft. Trin	• कर	arms	29	2 9	Longest Day.
22	M	٠	1	should	30	2 58	* 5 6
23	T		2	breatt	Ŋ	D fets	Weather.
24	W	Nat. of J. Bap	3	ftom.	2	8 a 54	Midfummer Windy, and
25	Ţ	ļ	4	heart	3	9 -28	Windy, and Showers.
26	F		5	back.	4	9 56	Sultry
27	S			bowels	5.	10 21	toward the
28	r	3 S. aft. Trin	7	beily		10 45	Conclusion.
29	M	St. Peser	8	reins	7	11 9	
30	\mathbf{T}	- ,	9	and	8	J.F 34	* 9 Å
1					. '	<u>'</u>	

The 15 day, at 3 aftern. Saturn The 20 day, at 7 morn. Mars The 23 day, at 6 aftern. Venus The 25 day, at 2 morn. Mercury The 25 day, at 10 morn. Jupiter

is with the Moon.

The 25 day, at 10											
MD		àn ifes	S		oon uths						
1	3	52	8	8	6:	3 5 2					
Z	3	51	8	Q	7	43					
3	3	51	8	9	8	34					
3 4 56	3	50	8	10	7 8 9	26					
5	3	49	8	.11	IÓ	20					
6	3	48	8	12	11	14					
D 8	3	48 47	8	12	mo	ra '					
8	3	47	8	13	0	8					
910	3	46 46	8	14	1 2 3 4 4 5 6 6	1					
10	3	46	8	14	I	52					
11	3	45	8	15	2	41					
12	3	45	8	15	3	27					
13	3	44	8	16	.4	10					
13 D	3	44 44	8,	16	4	52					
15	3	44	8	16	.5	33					
16	3	43	8	17	6	15					
17	3	43	8	17	6	58					
ι8	3	43	8	17	7 8	43					
19	3	43	8	17	8	30					
20 D	3	43	8	17	9	21					
מ	3	43	8	17	10	15					
22	3	43 43	8	17	11	11					
23	3	43	8	17	0 8						
24	3	43	8	17	1	7					
25	3	43	8	17	2 1	4					
20	3	.44	8	16	Z	59					
27 D	3	4.4	8.	16	3	52					
	.3	44	8	16	4	43					
29,	3	45	8,	15	9 10 11 0 2 2 3 4 5 6	59 52 43 34					
30.	.3	45	8	15	6	25					

Monthly Observations.

I perceive in perufing several ancient pieces of this fignature, some of which were written by the ingenious Mr. Moore himself, that the monthly observations were not taken up with predictions from every aspect which that month produced, but with pertinent remarks upon the whole;

FULL Moon 7 day, at 8 night.

interperfed fometimes with the proprecies of Daniel, and the opinions of the best commentators; at other times with remarks from monks, abbots, and ancient fathers, much too good for the time they lived in, of the degeneracy of the age, and the pride, luxury, and ignorance of the

LAST Quar, 15 day, at 7 night.

priests in those days. In this I think they were right at that time, wifely considering that a true judgment of the affairs of the world was not to be made from every aspect; but from the aggregate; and whea the company found a man not capable of that; they resigned him over to another

NEW Moon 23 day, at 8 morn.

prefs. They wrote wifely for that time. Sed tempora mutantur. Be it remembered that a certain class put Galileo into the Inquisition for herely. The present class

FIRST Quar. 29 day, at 12 night, embrace his tenets. The great Alpha and

To that grand Architect who spoke
The Word, when lo from ancient night
And Chaos, new Creation broke,
While Worlds unnumber'd rose to light
Each in his Orbit regular to move,
'Till he shall bid them cease, who order'd them to ro

		I III he man bit			W #	o order c	them to love.
M	W	Faste and	0	y) '8	D) rifes	Mutual Afp.
D	D:	Fellivals	25 0	Signs	A	& fets	and Weather
_				-4	-		22-2-A-2-
1	w	Tr. Term. inds.	10	loins	9	morn	The Month
2	T						
	- 4	Vifit. B. V.M.	11	fecret	10	-	begins
3	Ŧ	Dogs days begin		memb	11	0 37	with hot wea-
• 4	S	Tra. St. Martin	13	hips	12	1 18	25 %
5	Γ ·1	S. ait. Trin.	14	thighs	13	2 10	Old Midfum.d.
6	M	,	15	knees	14	3 2	ther in
7-	Т	Ta Becket Cam.	16	and	F	9 rifes	carneft, which
8	W	Com	17	hams	16	8 8 25	8 2 3
9.	T		18.	legs '	17	8 50	in all probabi-
OF	F	Camb. T. ends	18	ancles	18	9 12	* 2 2
11	S		19	feet	19	9 32	lity produce
12	IJ,	S. aft. Tries	20	and	20		Thunder
43	M	Onford All	21	toes	21	9. 50	and turbulent
	Т	Capera na	· -	1 - ' - ')			
44			22	head	22	to 31	008, 092
15	W	Swithin.	23.	face	23	10, 22	△ ⑤ り
16	T		24	neck	24	11 24	8 14 8
\$ 7	F		25	throat	25	11 58	air at or near
18	Ş	Oxf. Trep mis	26	arms	26	morn	thefull moon;
19	1	perant. True.	27.	shoul-	27	0 42	* 3 2
20	M	Margaret .	28	ders	28	1 36	more dalm &
2 :	Ť		29	breaft	29	2 42	Yeafontable.
22	W	Magdalon.	v.	ftom.	Ń	D fets	with fome
¥3.	Т.		1	heart	4	7254	cooling flow-
24	F		2	back		8 22	ers, very
25	2	st. lames 🕡	_	bowels	3		*
26	Š.	S. aft. Trin.	3.		4	-	acceptable.
	М		4,	belly	5 6	9 11	
		`	5	reins ;		9 37	And the End
28	T		6	loins	Ź	10 6	bids for to
29	W.		7	Tecret	8	10 38	produce a
30	T		.8	memb.	9	11 17	moderately
31	F	1	9	hips	10	morn	good Harvest.

The 12 day, at 11 aftern. Satura
The 19 day, at 7 morn. Mars
The 21 day, at 11 aftern. Mercury
The 23 day, at 6 morn. Jupiter
The 23 day, at 5 aftern. Venus

is with the Moon.

M	9	un	ts	1119	Mo	on l	
D		les		ts	Sou		Manchla Ol Comming
	1.	1165	16	:13	402	par u	Monthly, Observations.
	_		_				Omega has faid that become and anoth
1	3	46	8	14		3, 18	Omega has faid, that heaven and earth hall pass away; but not one jot or tattle
2	3	46	8	14	[8	9	of his word should pass away, till all things
3	3	47	8	13	9	3	were fulfilled. We have had so many
4			8	13	Í	56	proofs in history, both facred and prophane,
7	3	47	8		10.		of the fulfilling the prophecies of antient
D	3	48		12		49	writ; that what yet remains to be done,
6	3	49.	8	11	44	49	· .
7	3	49.	8	14	mo		FULL Moon 7 day, at 9 morn.
8	3	50	8	10	0	29	
9	3	5 L	8	a	1	16	we may be as cettain of as that which is
10	3	7	8	8	2	O	past; but the how, the where, and the
	, -	5.2		~			when, are known only to the grand dif- pofer of all events. Inforutable are the
ii.	3	53	8	7: 6:	2	43	ways of God, and his dealings with man-
D	3	54.	8		3'	25	kind are past finding out. And yet we
13	3	55	8	5	4	6	have by degrees a pleafing prospect of that
14	3	56.	8	4	4	48	
15	3	5.7	8	3		31	TACTE O
į6.		7	8	7	Ş	16	LAST Quar. 15 day, at 11 morn
	3.	- 1		٠.,			glorious though diffant day, the dawnings
17	3	59	8	1	7	4	of which I flatter myself I now begin to
18	4	0	8	9	7	56	perceive; when religion, philosophy and the glorious love of liberty, shall banish
P	4	2	7.	.28	8	51	false enthusiasm, gloomy superstition, bar-
120	4	3	7	57	9	48	barous ignorance, and most barb rous ty-
21	4		, -	36	ıó	47	ranny from the face of the earth. The late
32	1 -	4	7		lii	46.	
1		5	7	55	1		NEW Moon 22 day, at 4 aftern.
43	4	7	7	5 3	,	8 44	commotions in the Western world, how-
144	4	8	. 7.	5,2	Ţ	3 9	ever detrimental they may have been to us
		10	7	50	1 2	33	on this fide the Atlantic, together with the
138	4	11	7	49		26	great progress which arts and sciences are
147	, ,	12		48	3 4	į8	with hasty strides making among them,
28			7	70		11	have already paved the way for freedom
1 -	1	14	7	46	8		/
39		. 15	7	45	0	4	FIRST Quar. 29 day, at 6 morn,
130	14	17	7	43	6	57	to follow genius in the way to honous, and
j	114			42	7	ζΟ	
Ľ			٠,	7-	<u>' </u>		Darde ser ser ser ser ser ser ser ser ser se

Immortal Newton, when to thee
Was given into Nature's Laws
To penetrate; and Gravity
Was well explain'd, yet still the Cause
Unsearchable, in Darkness still involv'd,
Was piously into the Will of God resolv'd,

۱		A THE PERSON AND							
	W	Fafts and	0	>'	D		rifes	Matual Afp.	
D	D	Festivals	R	Signa	A	8	fets	and Weather	
	-		-			-			
1	S	Lammas Day	10		11	ī.	m 2	good weather	
Z		8 S. aft. Trin.	10		12	0	55	े ४० म	
3	M	(- · · · · · · · · · · · · · · · · · ·	11	and '	13	1	53	ΔϦΫ	
4	T	, · .	12	hams	14	2	55	0 h 8	
5	W		15	lcgs	li l	_	rifes	apparently at	
	T	Transfiguration		ancles	16	7	a 17	the Begining,	
7 8	F	Pro. Amelia b.	15	feet	17	.7	38	Name of Jesus	
8	S	1	16		18	7	58	then about	
9		9 S. aft. Trin.	17	toes	ا9ا	8	17	the Full	
10	M	St. Lawrence	18	head	20	8	38	Moon expect	
11	T	Prs.Brunsw.b.	19	face	21	9	0	Dog Days end.	
12	W	Pr.of Wales b	20	neck	22	9	28	O. Lamm. D.	
1.3	T	i. ' i	21	and	23	9	59	fome Rain,	
14	F	1	22	throat	24	10	40	and ruffling	
15	S	Assumption	23	arms'	25	11	26	Winds and	
Ιιδ	D	ros. aft. Tria.	24	should	26		orn		
17	M		25	breast	27	0	23	े ५ स इ	
18	,	1 '	26	ftom.	28	1	32	hafty Showers	
19		1	27	heart	29	2	ر50	probab!y	
7 0	T	L :	28	back	N	D	fets	attended with	
2 1	F	Pr.W. Hen. b.	29		2		a 50	8 7 8	
22			呗	belly	3	. 7	18	Thunder.	
23	P	1S. aft. Trin.	1	reins	4	7	44	Variable .	
24	M	St. Barthol.	2	loins	5	8	12	towards the	
25	T	1	3	fecret	6	8	43	Fnd of	
26	N S	1	4	memb.	7 8	9	22	the	
27	•	J	5	hips	1 -	10	7	1	
28			5	and	9	10	57	40 \$	
29	S		6	thighs	10	11	53	1	
ιć	D		7	knees	11		orn	* 8 8	
; 1	M		18	hams	1 12	0	54	Month.	
-					<u> </u>				

The 9 day, at 4 morn. Saturn
The 17 day, at 2 morn. Mars
The 20 day, at 2 morn. Jupiter
The 20 day, at 9 morn. Mercury
The 22 day, at noon, Venus

is with the Moon.

	- 1 1	<u> 1</u> C	72	da	, a		noon, venus
MD	un riles	1	Su.	1		oon aths	Monthly Observations.
D D	, ,	0	7	40		a 43	It is not a doubt but in succeeding times the present slaves to other nations will with
. –	, -	2	7	38	Q 10	34	a noble and manly dating, affert their liber- ties, and break off the shackles which have
3	, ·	3	7	37 35	111	23 10	fo long oppressed them. The arts and
5		6	1	34	11	56	PTTI I Manua dan as as at to
6	4 2	8	7	32	m	orn	FULL Moon 5 day, at 10 night.
7	4 3	0	7	30	٥	40	fciences never chose to dwell where liberty
8		I.	7	29	. 1	22	and freedom had not erected their flandard But alas while the human species are
D		13	7	27	2	4	hoodwinked by blind superstition, or trem.
10		15	7	25	2	46	ble under the menaces of cruel tyranny, the foul, however pregnant with celestial fire,
11	4 3	8	7	23	3 4	- 29 - 13	has neither means nor power to exertitfelf. Thus, as the poet justly observes, hands
13		Ю	7	20	5	• •	that might have fwayed the rod of empire
14		2	7	18	5	49	LAST Quar. 14 day, at 2 morn.
15	,	4	7	16	5 6	41	or waked to extary the living lyre, are
D	4 4	15	7	15	7 8	36	now employed in the bafe fervice of fome
17		F7	7	13	٠	32	unfeeling tyrant.
18		9	7	11	10	30 28	"While knowledge to their eyes her ample page, "Rich with the fpoils of time ne'er unroll;
19		3	7	9	11	2 ₅	NIPSEZ RACCO CON ACCOUNTS
21	L	4	7	6	-	2 2 2 2	NEW Moon 20 day, at 11 night.
22	4 5	6	7	4	1	18	" Chill penury suppacts'd their noble rage,
D	4 5	8	7	2	2	43	" And froze the genial current of the foul-
24	5	0	7	0	3	7	"Thus many a gem of pureft ray ferene, "The dark unfathom'd caves of ocean bear,
25 26	5	2	6	58	4	1 -6	
1 -		4	6	56	4	56	TD CT Comment of the comment
27 28	5	8	6	54 52	. 5	44	IRST Quar. 27 day, as 3 aftern.
2.9	5	9	6	51	7	35	" Thus many a flow's is born to bluft unfeen.
Ď		í	6	49	8	26	"And waste it's iweetness on the defert air."
31		3	16	47	9	14	

24 SEPTEMBER XXX Days.

The shining Robe of gladning Day
Thy Art prismatic brought to Light;
While self collected every Ray
With new Amazement strike the Sight;
Red, Orange, Yellow, Green, and pleasing Blue,
While Indico concludes with Shade of sadder Hue.

! -	7		_		_		
	W		0	7) %	1 2) rifes	
D	D	Festivals	攻	Signs	Ā	& lets	and Weather
1-	1-		-		1-	1	
ı		Giles	9.	legs	123	I m.59	High Winds
2		London burnt	10		14	3 5	1
3		1	11	cles	115	4 10	Showers
3	F	! , }	12	feet	F	I rifes	* 0 6
5	S		13	toes	17	6 8 30	8 7 8
5	D		14	head	18	6 52	towards the
7	M	Eunurchus	15	and	ودل	7 15	Beginning of
8	T	Nat. Virg. M.	16	face	20	7 39	the Month:
9	w		17	neck	ŽI	8 9	the Weather
ΙÓ	T	1	18	throat,	22	8 45	D 8 \$
41	F	Ì	19	arms	23	9 28	805
12	S	ا ہے ۔ ا	20	should.	24	10 21	more mild;
\$ 3	14	14 S. aft. Trin.	2.3	breaft	25	11 25	* # \$
34	M	Holy Cross	22	íto-	26	morn	which may
15	T		23	mach	37	0 36	458
16	w.	l .	24	Keart	z 8	1 52	continue
17		Lambert	25	back	29	3 15	without much
# 8	F		20	bowels	30	4 38	Alteration
19	S D	, e	27	belly	N	D fets	till the
80		y Siaft. Trin.	28	reins	2	6221	New Moon.
	M	St Matthew	29		3	6 52	Afterwards
2 2	T	K.Geo. III.cr	4	fecret	4	7 78	I apprehend
\$ 3	W		1	memb.	5 6	8 10	fudden
F 4	T	1	2	hips		9 0	* 4 \$
25	F	•	3	thighs	7	9 56	Showers, not
26	Ş	St. Cyprian 16 S.aft. Frin	4	knees	8	10 57	without rude
₽7 28	D	io a sur i un	5	hams	9	morn	Winds.
		St. Michael	6	legs	100	0 4	
ęς	Γ		7	an-	11		CI.AU.M.b
30	W	St. Jaromes.	8	cles	12	2 12	Variable
	<u> </u>				<u> </u>	<u>'</u>	to the End.
					_		

MOORE. SEPTEMBER, 1789. 25

The 5 day, at 7 morn. Saturn The 14 day, at 5 aftern. Mars The 16 day, at 10 aftern. Jupiter The 20 day, at 10 morn. Mercury The 21 day, at 11 morn. Venus

is with the Moon.

2 5 17 6 48 10 44 lition of the Slave Trade, is another interest of the Slave Trade, is another interest of the Slave Trade, is another interest of the Urbanity of S 21 6 35 0 52 0 52 0 52 0 52 0 52 0 52 0 52 0	_		. · ·	•/ • • • • • •	morn. venus
2 5 17 6 48 10 44 lition of the Slave Trade, is another interest of the Slave Trade, is another vincing proof of the urbanity of Morn 5 5 23 6 37 0 10 b 5 25 6 35 0 52 lowers, and their fine feelings for their lowers and all convergences of all sanks and all convergences of all	t	Oun I			Monthly Observations.
17 5 46 6 14 10 13 all his people, and to give to all nat left from the majety Divine to hiefs and hall his people, and to give to all nat left from the majety Divine to hiefs and hall his people, and to give to all nat left from the majety Divine to hiefs and hall his people, and to give to all nat left from the majety Divine to hiefs and hall his people, and to give to all nat majety from the majety of truth, who have the majety from the majety of the majety of the majety of the majety and tribution, and the majety hall placed to fuccour, help, and comfort that are in danger, necessity and tribution, and the majety upon all prifer from the majety of	2 3 4 5D 78 90 11 2D 14 56 178 19D 21 22 23 24 75 6 D 28 49	17 19 19 19 19 19 19 19 19 19 19 19 19 19	66666666666666666666666666666666666666	10 44 11 27 morn 0 52 34 42 35 42 37 42	When the bleffed hour of emancipation thall arrive, what joy and gladness will be diffused in the breath of thousands of our unhappy fellow creatures, who now with agony of heart cry out with the pfalmist, I.AST Quar. 12 day, at 3 aftern. who will shew us any good. And surely every one who reads our Holy Litany with a fincere heart, and who wishes that it may please the Majesty Divine to bless and keep all his people, and to give to all nations NEW Moon 19 day, at 7 morn. unity, peace and concord, that all may be brought into the way of truth, who have erred, and are seceived; that he will he pleased to succour, help, and comfort all that are in danger, necessity and tribulation, and show his pity upon all prisoners FIRST Quar. 26 day, at 4 morz. and captives, will join in wishing and endandard couring ro excitagate that diaholical business, which has long been a scandal to

Though Error reign'd through Ages past,
When Epicycles were the Theme;
Heav'n sent a Newson down at last,
To shew it all an idle Dream;
That Stream of Light which o'er the darksome

That Stream of Light which o'er the darksome Bed Of Ignorance o'erstow'd, still own'd its sountain Head

1	Of Ignorance q	C1 1	iow u, it.	111 01	ЧЦ (1 163	lonnram mean.
M W D D	1 + and and	0 =	D's Signs	A		rifes fets	Mutual Asp.
1 T	Remigius	9	feet	13		m 17	About
2 F	1	10	toes	14	4		the Begining
3 S	Ì	11	head	15	5		same brisk
4D	17 S.aft. Trin.	12	and	1	D	rifes	
5 M 6 T	1	13	face	17	. 5	a 53	Wind,
	Faitb	14	neck	81	6	22	and perhaps
7 W 8 T	İ	15	throat	19	6	55	0 5 2
8 T	Ĭ	16	arms	20	7	36	fome few
9 F	St. Denys [beg.	17	fhoul-	21	8	24	Showers,
10 S	Oxf & Cam.T	18	ders	22	9	31	Old Mich. Day
ומייו	18 S.aft. Trim.	19	breast	23	10	29	
12 M		20	ftom.	24	11	40	🛮 ४ १
13 T	Tr. K.Ed. Conf	21	heart	25	m	orn	continue
14 W		22	back	26	0	59	with fome
		23	bowels	27	2	19	ል
15 T 16 F		24	belly	28	3	40.	* 2 \$
17 S	Etheldred	25	reins	29	5	2	little Varia
	19 S.aft. Trin.	26	loins	Ń		fet.	Luke * 04
19 M	19 0.aic. 121H.	27	fecret	2		8 29	tion till the
20 T		28	memb.	3	8	10	latter End
ziW		29	hips	4	6	56	of the Month
22 T	·	m	thighs		7	51	When cold
23 F		0	knees	5	8	52	Weather,
24 S.		i	and		9	56	with fome
		2	hams	7 8		Spin	K.G.III.ac.
36 M	10 S.aft.Trin. C.Geo.HI.pr.	3	legs	9	m	orn	down fall, &
27 T	z.Geo.m.pr.	4	ancles	10	0	6	Δ δ Ω
	Sa Si- a 1. 1.	5	feet	11	ı	12	rough Wind
29 T	St. Sim. & Jude	6	and	12	2	15	conclude the
30 F		7	toes	13		20	ΔħΩ
3115	j	6	head	14	3 4	25	Month.
,	·	٠ ۲			_*_	' رب	*********

The 2 day, at 8 morn. Saturn The 13 day, at 5 morn. Mars The 14 day, at 3 aftern. Jupiter The 20 day, at 9 morn. Mercury The 21 day, at 10 morn. Venus The 29 day, at 1 aftern. Saturn

is with the Moon.

M D	Si	n es	Su	73	Moon		
D	ri	es	fe	.9	Souths		
_			_				
1	6	14	5	46	10 8	19	
2	6	16	Ś	44	TI	ó	
1 2 3 D 5 6 7 8 9 10 D 12 13	666666666666666666666666666666666666666	18' 20' 22' 24' 26' 28' 29' 31'	5	46 44 42 40 38 36	11	0 42	
Ď	6	2 0	5	40	шo	rn '	
5	6	22	5	.38	0	26	
6	6	24	5	36	1	11	
7	6	26	5	34	1	58 47 38	
8	6	28	5	34 32 31	2	47	
9	6	29	5	31	3	38	
10	6	31	5	29	4	31	
D	6	33	5	29 27	5	25	
12	6	33 35 37 39 41 43	5	25	6	31 25 20 14 8	
13	6	37	5	23	7	14	
14	6	39	5	2 I	8	8	
15 16 17 D	6	41	5 5 5	23 21 19	9	2	
16	6	43	5	17	9	56	
17	6	45 47 49 51	15	15 13	10	50 46 44 42 39 35	
D	6	47	15	13	11	46	
19	6	49	15	11	02	44	
20	16	51	15	9	1	42	
21	6	53	5	7	2	39	
22	6	53 55	5	5	3	35	
23	6	56	5	4	4	29 20	
24 D		58	5	, 2	5	20	
U	7	. O	5	ø	6	8	
26 27	7	. 2	4	58	6	54	
27	7	4	4 4	9 7 5 4 2 5 8 5 6	7	38	
28	7	56 58 0 2 46 8	4.	54	0 1 1 2 3 4 5 6 7 8 9 9 10 11 2 3 4 5 6 6 7 8 9		
Zg	7	8	4	52	9	2	
110	٠r 🕶	•					

Monthly Observations.

When we shudder at even the most distant apprehension of any invasion upon our own liberties, let us in their case apply the

FULL Moon 4 day, at 7 morn.

golden rule, whatfoever ye would that men should do unto you, do ye even so unto them, for this is the law and the prophets. The precepts of the Gospel, the seelings of humanity, and the natural rights of every son and daughter of Adam, all plead in the behalf of these children of affiliction,

LAST Quar. 12 day, at 2 more.

with fouls immortal, and talents capable of the greatest refinement: and I fincerely believe, the great father of all mercies is now about accomplishing this great end,

NEW Moon 18 day, at 4 afters.

and fecretly flirring up the hearts of all his faithful fervants to that purpose, to enlighten their understandings, and to raise them from the death of sin ento the life of righteousness, and that this is one means

FIRST Quar, 25 day, at 8 night.

by which his gracious goodness purposes to accomplish the number of his elect, and to hasten his kingdom. It is well worth our observation, that while we are humanely exerting ourselves in the behalf of

The Pace of Sound, when in its Flight From Heav'n, dread Thunder shakes the Ground; Th'amazing Race of rapid Light, All this the wond'rous Newton found. He saw, he prais'd, he wonder'd and ador'd; Then gladly shew'd the Works of Heav'ns high Lord

I	-	8 /						HE WENT TOTAL
M D	W D	Faits and Feitivals	0 10	D's Signs	Ä	D.	rifq: fets	Mutual Asp and Weathe
1 2	D M	21 S.aft. Trin. Pr. Edw. b.	10	neck	15	3	mzc	
3		Prs. Sophia b.		and throat	17	5	7 1	ं कि ठ व
4 5	-	Powder Plot	13	arms	18	5	38 25	
5 6		Leonard	15	should.	50	7 8	19	Mic. Term deg
7 8	S	D.of Cumb.b.	16	breaft ftom.	21	9	21 P5	Weather.
9		Ld. Mayor's D	18	heart	23	ıő	46	Dárk
10		St. Martin	19	back bowels	24 25	m o	orn	□O3, 4 4 9 Weather,
12	T		21	belly	26	I	3 2 I	with Snow,
13		Britius	22	reins loins	27 28	2	41	Sleet, or cold
14	S	23 S.aft. Trin.	23	fecret	29	4 5	. 1 22	Rain; then Machutus
16		Tr 7 D. T'.	25	memb.	30	6	40	sharp freezing
17 18	T W	Hugh Bp. Linc.	26 27	hips and	N	-	fets a 34	Winds. Changeable,
19	T	77.1	28	thighs	3	ģ	33	some lime,
20 21	FS	EdmundK&M.	29 1	knees hams	4	7	37 42	then DOU
22	D	24 S.afr. Trin.	1	legs		.9	49	Cecilia, O.M.
23 24		St. Clement	3	ancles feet	. 7 8	io	55 orn	* 5 \$ Frost and
25	ŵ	D. of Glo. h.	4	and	9	0	, o	Catherine
	T F	'	5	toes head	10	ı	4	ДЂ¥ Snow.
27 28	S	Mich.Termends	7	face	12	3	7	Rough,
29		Advent Sun,	×	neck	13	4	16	stormy Winds
30	IVI	St. Andrew	9	and	14	5	21	conclude the Month.

The 10 day, at 11 morn. Mars
The 11 day, at 5 morn Jupiter
The 15 day, at 8 aftern. Mercury
The 20 day, at noon, Venus
The 25 day, at 7 aftern. Saturn

is with the Moon.

2 7 15 4 45 11 55 morn 4 7 18 4 42 morn 4 7 18 4 42 0 48 5 7 20 4 46 1 36 6 7 22 4 38 2 31 7 7 24 4 36 3 24 6 6 7 25 4 35 4 17 9 7 25 4 35 5 10 10 7 29 4 31 6 3 10 11 7 30 4 30 6 55 12 7 32 4 28 7 47 13 7 33 4 27 8 39 11 7 35 4 25 9 32 11 7 37 4 23 10 27 16 7 38 4 22 11 24 17 7 40 4 20 6 21 18 7 41 4 19 1 18 19 7 42 4 18 2 14 36 3 8 19 7 42 4 18 2 14 36 3 8 10 7 42 4 18 2 14 36 3 8 10 7 42 4 18 2 14 36 3 8 10 7 42 4 18 2 14 36 3 8 10 7 42 4 18 2 14 36 3 8 10 7 42 4 18 2 14 36 3 8 10 7 42 4 18 2 14 36 3 8 10 7 42 4 18 2 14 36 3 8 10 7 42 4 18 2 14 36 3 8 10 7 42 4 18 2 14 36 3 8 10 7 42 4 18 2 14 36 3 8 10 7 42 4 18 2 14 36 3 8 10 7 42 4 18 2 14 36 3 8 10 10 10 10 10 10 10 10 10 10 10 10 10 1	l	·-			,	,,		
2 7 15 4 45 13 56 morn 4 7 18 4 42 6 48 5 7 20 4 40 1 36 6 7 22 4 38 2 31 7 7 24 4 36 3 24 D 7 25 4 35 4 17 9 7 27 4 33 5 10 10 7 29 4 31 6 3 11 7 30 4 30 6 55 12 7 32 4 28 7 47 13 7 33 4 27 8 39 14 7 35 4 25 9 32 16 7 38 4 22 17 17 7 40 4 20 6 2 21 18 7 41 4 19 1 18 19 7 42 4 18 2 14 17 7 40 4 20 6 2 21 18 7 41 4 19 1 18 19 7 42 4 18 2 14 17 7 40 4 20 6 2 21 18 7 41 4 19 1 18 19 7 42 4 18 2 14 17 7 40 4 20 6 2 21 18 7 41 4 19 1 18 19 7 42 4 18 3 58 D 7 7 7 7 8 4 7 8 3 58 D 7 7 7 7 8 8 7 8 7 8 8 9 18 7 41 4 19 1 18 19 7 42 4 18 2 14 17 7 5 6 4 7 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8								Monthly Observations.
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To Newton's Mem'ry. Ages flown
His Works shall give a deathless Fame;
When the frail monumental Stone,
False to its Trust conceals his Name;
And while his Works unfold all Nature's Laws,
Let us, by Newton taught, adore the great first Cause

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	W		0	D. a	D) rises	Mutual Afp.
D	D.	Festivals	.	Signa.	A	& lets	and Weather
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7 8	T	Concep. V. M.	17	bowels	22	11 ,1	attended
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26	S	St. Stephen	5	face	13	1 -45	₹ \$ 4 \$ 4 \$ \$
27	D	St. John		neck	12		Saft Chrift.
28		Holy Innocena	7	throat	13	3 .55	Sixteenth.
29	T	,	8	arms	14	5 0	Now expect
30	Ŵ		9	should.	15	5 . 56	Frost.
31	T.	Silvester	10	breast	116	6 49	1

MOORE: DECEMBER, 1789: 34.

The 8 day, at 9 morn. Mars
The 8 day, at 2 aftern. Jupiter
The 15 day, at 8 aftern. Mercury
The 20 day, at 2 aftern. Venus
The 23 day. at 5 morn. Saturn

is with the Moon.

	The 23 day. at 5 morn. Saturn											
M D		Sun		Sun	Mo Sou		Monthly Observations.					
1	7	57	4	3	LI a	25	of this isle every reason to hope, that our					
2	7	58	4	2	mo	- 1	FULL Moon 2 day, at 5 aftern.					
3	7	59	4	1	0	17	, , ,					
4	8	ó	4	0	1	11	God is with us, and will bless us, that he					
	8	1	3	59	2	6	will shew us the light of his countenance, and be merciful unto us, while we con-					
5 D	8	2	3	58	3	0	tinue to make his ways known upon					
7	8	3	3	57	3	53	earth, and his faving health among all					
8	8	3	3	57	4	44	•					
9	8	4	3	56	5	35	LAST Quar. 9 day, at 6 aftern.					
10	8	5	3	55	5	25	,					
11	8	. Ś	3	55	7	17	nations. Let others prefumptuously give					
12	8	6	3	54	7 8	8	their ipse dixit upon every celestial aspect,					
D	8	6	3	54	9	2	as if they had been of his privy counfel, and were acquainted with the grand arcana					
14	8	7	3	53	9	57	of his divine will: the true Christian astro-					
15	8	7	3	53	10	53	•					
16	8	7 7 7 8	3	53	11	50	NEW Moon 16 day, at 5 aftern.					
17		8	3	52	0 8							
18	1 -	8	3	52	1	36	logy is to contemplate the glory, infinite					
19	1 -	8	3	52	2	25	power, wisdom, goodness, greatness, mercy					
D	8	8	3	52	3	11	and love of the great Alpha and Omega,					
21	8	8	3	52	3	55	to look with profound reverence upon the grand lines of that divine accomomy, which					
22	15	8	3	52	4	37	maketh war and peace, funshine and tem-					
23	1 -	8	3	52	5	1,8,						
24		8	3	52		0	FIRST Quar. 24 day, at 1 after 2.					
25	8	7	3	53	6	42	74					
26		7	3	53	7	26	peft, difcord and love, all concur in one					
D	1 -	7	3	53	8	12	great end. When the fon shall have deli-					
28	١.		3	54	9	I	vered up the kingdom to od, even the					
29		6	3	54		52	Father; for faith holy writ, he must reign till he hath put all enemies under his					
30	1 .	_	3	54		46	feet; and the last enemy that shall be def-					
31	18	_ 5	13	55	111	42	troyed, is death.					

The Dominion of the Moon in Man's Body.

Passing under the Twelve Zodiacal Constellations.

Y Aries Head and Face +2 Libra Reins and Loins & Taurus Neck and Throat M Scorpie fecret Members II Gemini Arms and shoulders & Sagistary Hips and Thighs 25 Cancer Break and Stomach VS Capricers Knees and Hams A Lee Heart and Back . . Aquarine Logo and Ancles M. Virgs Bowels and Belly & Pikes Feet and Toes The Names and Characters of the PLANETS With the Dragen's Head and Tail. 5 Saturn 4 Jupiter O, or the Sum A Mars the Moon B Dragon's Head .- B Dragon's Tail. he CHARACTERS of the ASPECTS. 6 Conjunction } & Opposition } △ Trine
□ Quartile Upon the TWELVE SIGNS. The Head and Face the Ram doth always rule: "The Neck and Throat are govern'd by the Bull. II O'er the Arms and Shoulders kill the Twins prefide: Breatt, Stomach, Ribs, the crooked Crab doth guide. Or The noble Lies rules the Back and Heart: IR The bashful Virgin claims the Belly Part. The Reins and Loins the equal Balance weigh: m The Scorpion o'er the Secret Parts doth fway. F The curious Arche doth the Thighs affect: yn So doth the Geat our bended Knees protect. The Legs onto Aquarius' Lot do fall : M The Fife our active Feet their Portion call.

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CHRONOLOGY.	
-	33
Chronology of many remarkable Occurrences. Years of Christ. Years	c
rears of Christ. Years of William (the Norman) conquered England -	
1183 Ireland conquered by the English	723 601
1200 Windmilis invented	490
1302 The Mariner's Compais invented	487
1304 Edward I. reduced Scotland	485
1330 Gunpowder discovered by a Priest	459
1369 Wickliff first began the Reformation	420
1441 Frinting invented by a German	248
1492 Columbus discovered America	297
1517 Luther wrote against Indulgences	272
1521 Engraving on Wood, invented by Alber Durer	
1535 Cannon first used	254
1584 Virginia discovered by Sir Walter Raleigh 1590 Telescopes invented by Jansen, a Dutchman	205
1603 Queen Eliz. died, King James succeeded -	199 186
1603 A great Plague in London, died 56,570	186
1603 King James I. crowned July 15, at Westminster	186
1605 The Popish Gunpowder Plot, November 5 -	184
1608 Saturn's Satellites first discovered	181
1614 The New River brought to London	175
1616 Shakespeare the Poet died	173
1616 Shakespeare the Poet died 1625 A great Plague in London, died 34,517	164
1025 King James Gled, K. Charles I. crown'd, Feb. 2.	164
1632 A great Fire on London Bridge, Feb. 11 -	177
1634 Old Parr died, aged 152, he lived in ten Reigns	154
1641 The Earl of Strafford beheaded, May 12	148
1641 The cruel Irish Massacre, began October 23	148
1642 Edgehill and Brentford Fight 1642 Sir Isaac Newton born, December 25	147
1649 King Charles I. beheaded	147
1651 The bloody Fight at Worcester	140
1653 Oliver Cromwell made Protector, Dec. 12	138
1655 George Fox. the first of the Onakers	136
1658 Spring Pocket-Watches, invented by Dr. Hook	134
1 1050 Oliver Cromwell died Sept. 2	131
1660 King Charles II. restored, May 20	120
1001 K. Charles II. crowned, April 22, at Westminster	128
1 1001 A great Storm in London, Feb. 18	128
1662 The Royal Society instituted	127
1665 A great Plague in London, whereof died 68, 596	124
1666 The lamentable Burning of London, Sept. 2	123
Coogle	1661

34	MOORE, 1789.	
1666	War declared against Depmark, Oct. 19 .	123
.1667	Peace with Holland. France and Denmark.	122
1667	The Royal Exchange built	122
1668	Peace proclaimed with Spain, Feb. 12	121
1669	The Royal Exchange first opened, September 28	120
1670	The Prince of Orange arrives at Whitehall .	119
1672	War declared against the Dutch	117
1672	Halfpence and farthings first coined, Aug. 16	117
1674	Peace with Holland, proclaimed Feb. 28.	115
1677	Prince of Orange married to the Prince's Mary	112
1678	The Popish Plot discovered	111
1079	The Habeas-Corpus Act passed	110
1680	A great Comet appeared in December	109
1682	Another great Comet appeared	107
1683	The Penny Post Office established The great Frost that held 13 Weeks	106
1684	The great Frost that held 13 Weeks	105
1685	K. Charles II. died, and K. James II. succeeded	101
1685	The Duke of Monmouth beheaded, July 15	104
1688	The seven Bisheps sent to the Yower, June 8	101
1	The Fredender land to be both, June 10	
1088	Prince of Orange landed at Torbay, Nov. 4.	101
1688	King James II. abdicated, Dec. 12	101
	King William and Q. Mary crowned, April 11	100
1692		97
1692		97
1693	Hackney Coaches first licented	96
1093	Bank of England first established	96
1094	Lotteries first established	95
	K. William died, and Q. Ann began to reign	87
	Queen Anne declared War against France A terrible high wind, Nov. 26 and 27	87 86
1703	Gibraitar taken by Sir George Rook	85
1701	The Battle at Ramilies on Whit-Sunday	83
1700	England and Scotland united, May 1	82
1707	The Pretender attempted to invade Great-Britain	
1700	The French beat in the Woods of Blanglies .	80
1709	Great Riots and Disturbances in England	
1710	1) International	79 76
1714	A total Eclipse of the Sun, April 22	7 5 74
±215	The Rebellion in Scotland and Lancashire .	74
	A great Froil and Snow. A fair on the Thames	73
	he first Appearance of the Northern Lights	71
	Meteor. March 10. at 8 at Night	72

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	746		cotel	ı Re	bels	defe	eate	l at C	ulloc	len, A	pr. I	64	
	748	A gen	eral	Peac	ce, co	əncI	udeo	i, Ó	ctobe	r 7			F
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		The S								pţ. 2	.• •		7
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A TABLE of the Rifing, Southing, and Setting of the Pleiades, or Seven Stars, for every 4th Day in the Year, of excellent Use to find the Hour of the Night.

Month Rife. South Sets Month Rife South Sets & Days h m h m h m

Month	Rite.	South	Sets	Month	Kile	South	Sets
& Days	h m	h m	h m	& Days	h m	h m	h m
fannary 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 28 0 a 6 1 1 m 44 1 1 23 10 52 10 40	8 a 4 8 22 8 c 7 39 7 19 6 56	5m 2 4 38 4 16 3 55 3 34 3 12	Ajn 6 11 16 21 26	om 38 11 57 11 37 11 17 10 57	8m 54 8 34 8 13 7 53 7 33 7 13	5 a 10 4 50 4 29 4 9 3 49 3 29
reoruary 11 16 16 21 26	10 17 9 56 9 36 9 17 8 58 8 39	6 33 6 12 5 52 5 33 5 14 4 55	2 49 2 28 2 8 1 49 1 30 1 11	August 29	9 55 9 36 9 17 8 59	6 49 6 30 6 11 5 5 ² 5 33 5 15	3 5 2 46 2 27 2 8 1 49 1 31
1 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8 28 8 10 7 5 ² 7 33 7 15 6 57	4 44 4 26 4 8 3 49 3 31 3 13	1 0 0 42 0 24 0 5 11 247	September 9 1 9 2 1 9 2 1 9 2 1 9 2 1 9 2 1 9 1 9	8 37 8 19 8 1 7 43 7 26 7 8	4 53 4 35 4 17 3 59 3 42 3 24	1 9 51 0 33 0 5 11m 58
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onn 6 11 16 21 20	2 41 2 21 2 1 1 42 1 19	10 57 10 37 10 17 9 58 9 35 9 15	7 13 6 53 6 33 6 14 5 51 5 1	December 1 1 6 2 1 2 6	2 45 2 24 2 2 1 40 1 18 0 56	11 2 10 40 10 18	6 56

Γ ABLE of some principal fixed Stars, with the Timethey Rife, South, and Set, either before or after the Seven Stars; as also their Colour, Magnitude, and Meridian Aktitude, by which they may be readily discovered.

Co-	1:	Mag	Names of the Stars.	K	iie	Sou	1th		ets	
lour				h	· m.	h:	m	h	m,	
8	53	1	Aldebaran, or Bull's Lye	1	a 34	o a	48	0	b, c	
	29	1	Left foot of Orion	4	31	1	31	1	34	
45	36	2	Middle * in Orion's Belt	4	.13	1	51	0	35	
3 ₫	45		Right Shoulder of Orion	3	23	2 .	8	٥	3	
8 8	2 I	1	Syrius, the great Dog	6	41	3	1	0	48	
₹.	43	2	Procyon the little Dog.	5	33	3	53	2		
ን ያ	30		Heart of Hydra	8	39	5	41	2	44	
ħ &	5.1		Regulus; Lion's Heart	7	26	6	. 21	5	16	
·β	54	1	The Lion's Tail, Denab	8.	42	7	54	7	;	
₽ 8	28	Į-	Virgin's Spike	12	46	9	38	6	- 36	
84	58	ľ	Arcturus	10.		10	30			
8	12	1	Antares, the Scorp. Heart	17	: 36	12	39	7	42	
ρğ	46	2	Bright * of the Vulture	17.	38	16	3		b 27	
ęβ	6	ı	Fomelhaut .	ιī.	14	19	11	10	37	
24	56	2	Head of Andromeda	10	42	10	10	2	56	
			1 1							

THE-brightest of the seven stars is of the third magnitude, and hath 61 degrees of meridian altitude, and in colour participates of the D and 2.

The fixed stars all rife, fourth, and set about four minutes sponer every night than they did the night before; this considered, the exact time of riling, southing, and letting for any intermediate night, not herein noted, may be very easily deduced from these tables, by inspection only.

To know the time of riling, fouthing, and fetting of any star in this table, for any day required; it is but considering how many hours and minutes that star rues, fouths or sets, either before or after the seven stars on that day, and you will have your desire; observing that in this rable, a stands for after, and b for before.

A Table

Florence

Frankford

Hamburgh

Ferujalem

Mexico

Naples

Quinzal

Strasburgh

Toledo in Sprin

LONDON

Rone

Truy

Price

Servile

Took

Liston in Portugal

Middleburgh in Zouland

Mente in Germany. ,

Morocco in Bartary .

Paris in France

Prague in Bobenia

A Table shewing the Bearing, Distance, Longest Day, and Disserence of the Meridians of most of the principal Cities in the World, from the samous City of LONDON.										
Manage of Oliver	I he Way	Dut	iongeit	Differ.						
Names of Places.	or Point	in	Dav	Merid.						
	of bearing	Miles	h m	h in						
Alexandria in Egypt .	St. by E.									
Amsterdam in Holland	E.'by N	266								
Athens in Greece .	SE. by E.	1642								
Antwerp in Brabant	East tere	748								
Babylon	E. S. E	2724		م ذ ا						
Bethfaida	SE. by E.	2369								
Bermusas	W. S. W.	3409								
Calcutta in Exist-Indies	SE. by E.	5214		1 2						
Calais in France .	E. by S.	86								
Constantinople	E. S, E.	I 547								
Dublin in Ireland	NW.byW	296								
Dantzick	E. N. E.	96 i								
Daniascus	E. S. E.	2404								
Edinburgh in Scotland	North	328								
Eplicsus	E. S. E.	1808		4						

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7.1

PROEM.

HEN Sis'ra proud, a hostile band
Led fierce against the promis'd land,
And Israel's ruin sought;
Little he dreamt that a decree
From heav'n had fix'd his destiny,
While stars 'gainst Sis'ra fought.

How long, th' expecting mother cries, His chariots wait to bring the prize, And trophies he has won; Maternal fondness thus exults, While vainly she her maids consults, What prize shall grace her son.

In fancy's eye she sees a throng
Of captiv'd Hebrews move along,
By valiant Sis'ra led:
Fond mother, cease; thy strains give o'er,
Thy Sis'ra triumphs now no more,
He's number d with the dead,

When angels to the list'ning earth, In strains colessial sung the birth Of Heav'ns eternal King; The Eastern Magi from afar, Led by Heav'n's messenger, a Star, To him their off rings bring.

Then cease thy strain, licentious wit, While Heav'n's decreees in holy writ. This facred truth unfold:
That when descended from above, For lost mankind redeeming love,
A Star the God foretold.

Of the ECLIPSES in the present TEAR, 1789.

I N the circumference of this revolving year there will be four Eclipses; two of each luminary, but one only will be visible to the inhabitants of Great Britain. These will happen in manner following.

The first will be an invisible eclipse of the Moon, and will happen on Saturday May the 9th, inmanner following:

Beginning at 8 h. 38 min. in the morning.

Middle - 9h. 31 min. End - 10h. 24 min.

Digits eclipsed 2° 54' on the Moon's Northern limb.

The curious in this doctrine of Penumbras will please to observe, that this eclipse, though invisible to us, will be visible to all the Western parts of North and South America; the whole will be seen at the Sandwick and Priendly Islands; also New Holland, the Philippine Isles, Japan, &c.

The second in order, during this year's revolution, will happen on Sunday May the 24th, at 20 min: and a half pait 10 at night, when there will be a desect of the Sun, which although totally invisible to the inhabitants of this isle, yet it will be centrally eclipsed on the meridian at 10 h. 18 m. in lon. 154° 29' West, and South lat. 11° \frac{1}{4}.

The third is a visible eclipse of the Moon, which will

happen as follows:

Beginning Nov. 2, 11 h. 28 m. at night Middle Nov. 3, oh. 32 m. morn. Lnd - 1 h. 36 m.

Digits eclipsed 3° 40' on ")'s Southern limb; a type of which may be seen in the margin.

This eclipse will be visible not only to the inhabitants of Europe and Africa, but also to the Western parts of Asia, and in the Eastern parts of America; but in China and Chinese Tartary, and those parts, as the Moon sets before the eclipse is over, the end thereof to them will not be visible.

I shall not advance any astrological predictions upon this eclipse in this place, because that may more properly be handled when we take a view of the whole icheme of the

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Heavens, and the positions of the coelestial wanderers at

the commencement of the Autumnat Quarter.

We therefore proceed to the fourth and last ealipse, which will be an invisible one of the Sun, and will happen on Tuesday, the 17th of November, at 3 h. 29 m. mern. This eclipse, although invisible to us, will be central on the meridian at 3 h. 22 m. in long. 129° 31' East, and in North lat. 14° 45'; and of consequence will be visible to the Eastern parts of Tartary in Asia, China, and Japan.

We think proper in this place to mention a remarkable transit of the planet Mercury over the Sun's disc, on the 5th of November in the afternoon, of which take the fol-

lowing calculation:



Ingress or beginning 1 h. 10 min.
Eliptic conjunction 3 h. 30 m.
Middle of the transit 3 h. 37 m.
Sun sets - - 4 h. 40 m.
Central-egress or end 6 h. 4 m.
For a further illustration of which we have annexed a type in the margin.

The industry of the Sons of Urania, (never enough to be commended) has now so far improved their knowledge in the coelestial science, as to be capable to detect the erratics in every part of their orbit, and shew their situation in the vast expanse upon the narrow scantling of a slip of paper.

· Mufis, inimica turba .- Secum habitant sapientes.

We come next to treat of a Comet, which is expected to appear at the latter end of the year 1788, or the beginning of the year 1789, and about which we were filent the last year, expecting this might make its appearance in the world at the time, if not before this surprising phenomenon was visible in the Heavens.

These rangers in the wide circuit of expanse, making their appearance so rarely to the inhabitants of our terrestrial orb, of consequence seldom become the subject of a work of this kind, whose chief business is to give an an-

nual register of the planetary motions.

The author of this performance, therefore, thinks it not amis, if, for the amusement and instruction of multitudes of his plain and honest country readers, he indulges himself with a page extraordinary upon a subject the terror and admiration of ages past.

Comets (vulgarly called Blazing Stars) were for ages past looked upon as forerunners of Heaven's dire vengeance upon the inhabitants of this earth. For this purpose they were supposed to be lighted up in the Heavens, and, having blazed forth the tremendous tidings, were again extinguished. Our modern astronomers have, by diligent study and strict observation, however, found out, that they are planets created with the other parts of the folar fystem, which run in very eccentric orbits, and whose periodical revolutions far exceed that of Saturn. And although the number of them, or their exact periods of return, for want of sufficient data, cannot be yet ascertained, yet there are fufficient reasons to convince us of the truth of their affer-As I would produce nothing upon this head but from the best and greatest authority, I beg leave to inform you, that the following remarks are quoted from an advertisement of the expected return of the comet of 1532, 1661, and again in the year 1788, or 1789, as it was read by the learned and Rev. Dr. Markelyne before the Royal Society.

This worthy and truly ingenious gentleman, who is now Astronomer Royal, and a Fellow of the Royal Society,

has the following observation, viz.

"The comet of 1531, 1607, and 1682, having retur-· ned in the year 1759, according to Dr. Halley's pre-" diction in his Synophis Astronomia Cometica, first published " in the Philosophical Transactions in 1705, and repub-4 listed with his Astronomical Tables in 1749, there is " no reason to doubt that all the other comets will return " after their proper periods, according to the remarks of " the fame author."

He further observes, that astronomers have generally acquiesced in the conjecture, that the comets of 1532 and 1661 were one and the fame, and to expect its return to

its perihelium accordingly in 1789.

After a learned and philosophical discourse, worthy the genius and scientifical knowledge of so great and learned a man (but to which for want of room we must refer the reader), he observes we may still expect it to return to its perihelium in the latter end of the year 1788, or the beginning of 1789, and certainly some time before the 27th of April, 1789.

I cannot quie this curious phenomenon, without quoing from so great an authority the following observation, iz. That it will approach us from the Southern parts of its

orbit, and therefore will appear with confiderable South latitude, and south declination; for that persons refiding nearer the equator than we do, or in south a soute, will have an opportunity of discovering it before the first to be wished that it may be first feet by some astronomer in such a situation, and surnished with proper instruments for settling its place in the heavens, the earliest good observations being most valuable for determining its elliptic orbit, and proving its identity with the comets of 1532 and 1661. The Cape of Good Hope would be an excellent

fituation for this purpole. Thus much for the aftronomical part, in which I have quoted the best authorities; and the highest praises can never repay the laborious fearches of these scientifical wor-Proceed we now to confider what may be faid upon all rological judgments, on the effects of comets. Admitting there are a fet of people of a particular melancholy cast of mind, who have a prodigy for every calamity, and a calamity on earth for every prodigy in heaven; yet this will neither prove nor disprove the truth or the falsehood of a comet's influence in the attrological line. We acknowledge that with the ancients comets were looked upon as certain presages of wars, commotions, earthquakes, inundations, plagues among men, murrain among beafts, fire and famine, and certain impending ruin of some kind or other. Let us now examine what fays the historical page? Why, it must be acknowledged, that it gives accounts of accidents happening fimilar to the above mentioned; and Solomon acknowledges what has been will be, and there is no new thing under the Sun. We will next allow with, the modern astronomers, that the comets run in very elliptical orbits, and have their appointed periods. Yet this question remains, viz. Have not all things in this world of vicifitudes their rotation? and what has happened under like circumitances for ages past, may we not rationally expect again?

In my last discourse upon the veracity of certain dreams, for which I produced such evidence as is uncontrovertible to any one who is not impious enough to deny the truth of Holy Writ, I beg leave here, by way of appendix, to illustrate the whole with certain passages from the New Teslament, which take as follow.

When the Virgin Mary was espoused to Joseph, before they came together, she was found with child of the Holy

Ghost. But Joseph, when he was minded to put her away privily, Behold an angel of the Lord appeared to him in a dream, faying, " Fear not, Joseph, to take unto thee Mary thy wife; for that which is conceived in her is of the Holy Ghost."—Matth. i. ver. 18, 19, 20. Again, when the wife men from the East, led by a star, came to pay their offerings to the infant God, and when Herod's subtlety had imposed upon their credulity, we find, being warned by God in a dream, that they flould not return to Herod, they departed into their own country, and went another way. See Matt. i. ver. 12. The Divine Previdence ordained the grand mystery of our redemption; so, when Herod faw he was disappointed, he slew all the poor innocents in Bethlehem under two years old, and unknowingly by that means fulfilled the prophecy:-" In Rama was a voice heard, Rachael weeping for her children," &c. &c. But how was Joseph warned of this? The answer is-By a "Arife (faid the angel of the Lord), and take the young child and its mother, and flee into Egypt, and be there until I bring thee word: for Herod will feek the young child to destroy him."-Ver. 13. Again, when Herod was dead, how was the news conveyed to loseph? -By a dream, "Arise (faid the angel), and take the young child and his mother, and go into the land of Israel; for they are dead who fought the young child's life."—Ver. 19, 20. Lastly, when the Saviour of mankind stood before the judgment-feat of Pilate, Pilate's wife fent unto him, faying, "Have thou nothing at all to do with this just man, for I have suffered many things this day in a dream because of him."-Ch. xxvii. ver. 19.

I have now concluded all that I defigned to fay upon the intelligence the Almighty has been pleafed to give in this manner. I wish not every idle roving of the fancy in sleep to be interpreted as a foreboding of iomewhat to happen; but that dreams have been certain predictions, no greater authority can a Christian reader require than that which I have already produced. As to the truth of dreams which have been three times repeated, I will not answer: this I know, that an ancestor of our family, who lived in York-shire, dreamt three times in one night that there was a salmon in a pit he well knew, which the floods had left full of water: He accordingly arose, took a lanthorn, and tyng a small cord around him, with a dart at the other end, ewent to the pit; and the next morning he and the fish

45

were both found dead in the water. His name was Toler,

and the place is called Toler's Pit to this day.

If it shall please the Divine Being to spare my life, in my next performance I design to shew how mankind have been forewarned and admonished by apparitions, in which avoiding every idle tale; for what I write I shall produce the best authority. But my narrow limits and ancient custom require now that I hasten to the seasons; upon which please to take the following resections.

Of the WINTER QUARTER.

FOR this Quarter we shall have very little to observe. as our conclusion of our last Ephemeris may very well answer for the whole of this. What more particularly requires your notice, among the coelectial intelligences, is as follows: The Quarter begins on the Sun's verging upon Capricorn, being the 21st day of December, and the old year concludes, or the new one commences, with an ominous quartile aspect of b and 2; while the present one is ushered in with another of no better import, and the aggregate prefents a confused scene which time alone can unravel. While the world endures, nations as well as private persons will busy themselves about either gaining or securing what the world calls property. When private persons are engaged, vociferous exclamations at the Bar determine the matter: but when nations contend, fire and fword, joined to all the calamities that hell can invent for the extermination of the human race, is the ultima ratio regum. As old Polonius says, 'Tis true, 'tis pity; and pity 'tis, 'tis true. However, from the beginning of creation to the prefent hour, and from hence to the final dissolution of all things, so is the will of Heaven, there is a constant mutation in all mundane affairs; and the late transactions and alterations in the Western world afford abundant matter to prove the truth of the Latin old adage,

Nunc mea, nunc hujus, Sed postea nescio cujus.

I know 'twas mine; —'tis your's, you now suppose; But whose it is to be,—God only knows.

The VERNAL or SPRING QUARTER.

THIS Quarter begins March 20, and the Sun enters Aries at 3 h. 53 m. mane. I will give as usual the scheme

M O O R. E., 1789.

46

for the year, which those who understand may interpret for themselves, and those who do not must take the sofe dixit of a frail mortal.



We find at the commencement of this Quarter, that Sagittary is upon the medium Coeli, and 27° 10' of Capricorn afcends in the East. The coelestials are, excepting Luna, all sub-terra, and no less than four of them in the aquatic fign Pifces; Mercury is retrograde, but changing his courfe for direct. In boc ligno non eft fibr aut donnes feu exalt, vel trip, fays the ancients. However, we find that the Quarter is ufhered in with fome notable afpects; Mars and Venus, the same fiery deity and the winged Mercurius; and again, the Queen of Beauty and the Mellenger of Heaven have just passed a conjunction with each other; and we further find that this commencement is speedily followed by a conjunction of Saturn with Venus, and another of Saturn and Mars; thefe, too, are fucceeded by two beingn aspects. viz. a trine of Jupiter with Venus, and another of Jupiter with Mars. I fufpest much negociation, many schemes on foot; but, if I rightly judge, of the pacific kind. He, in whose hands are all events, so dispose the hearts of the rulers of his people, of what nation or denomination foever, that peace and happiness, truth and justice, religion and virtue, may flourish among the sons of men! Proceed we now to the other Quarters.

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PROGNOSTICATIONS. 4

Of the SUMMER QUARTER.

THIS Quarter commenceth the 21st day of June, at 1 h. 55 m. mans, when the Sun makes his first advance to Cancer; and from the various configurations herein displayed, the scene upon the theatre of the world is like to prove a busy one. There is a prophecy in Nostrodamus, canto x. flanza 100, favourable to England, and not yet fulfilled; but whether it will happen in our day, I dare not determine. It is in English as follows:

The great empire shall be in England,
The Pempotan for more than three hundred years,
Great armies shall pass through sea and land,
The Portuguese shall not be contented therewith.

But I now proceed to The AUTUMNAL QUARTER.

THIS Quarter begins on the 22d day of September, at 28 m. past 3 P. M. when the Sun, once more entering the coelestial balance, measures out days and nights in equal portions. All the present page will admit of, is the result of my contemplations upon the planetary aspects to the period of this year, wherein, although there appear many favourable aspects, yet there are no less than ten inhospitable quartiles, whose ill effects will be but too severely felt. The following hieroglyphick, the veracity of which I think may be depended upon, although seannot ascertain its date, is with its motto very applicable to the present state of things.

Nullum malum folum; vel Uno bono fublato, mille existant.



logle

CONCLUSION.

WHEN we look into the various revolutions of rolling: ages, and the mutations from time to time, not only in the different parts of this terreurial globe, but in the manners. of its inhabitants; when we reflect upon the decay of ancient empires, and the rife of others; when we examine the history of the present century, and the late revolutions in the Western World; not to mention the concurrences of the celestial agents, or the effects of planetary positions; the most incredulous in the starry predictions must acknowledge, that the grand Projector of the whole, in whole hands are all events, and whose providential eye is ever over all his works, has one great end in view; and however dark and mysterious his dispensations may appear to the narrow limits of human capacity, yet has he appointed a time when the whole shall be accomplished. We find in this our age, philosophy, both natural and moral, not only shining upon us, the descendants of the worshippers of Thor and Tuesco, but dawning upon the darkest nooks of the creation; to fosten their manners, remove their prejudices, and, , by driving away the clouds of ignorance from their benighted fenses, enlighten their understandings against that glorious morn when the Sun of Righteousness shall arise upon them with healing under his wings. That all shall come to the knowledge of God, and of his Son Jefus Christ our Lord, is the language of Holy Writ, and the fure word of prophecy; of which, though heaven and earth shall pass away, yet not one word or tittle shall pass away, until the whole be fulfilled; then cometh the end, when the Son shall deliver all to the Father, that God may be all in all. Then shall the mysteries of Providence be cleared up from Adam the father of us all, to Noah the founder of the fecond world, from Noah to Moses, from Moses to Christ, and from Christ to the conclusion of all things. In full affurance of these things, may we, in this our day, to mind the things which belong to our everlasting welfare, that we may lay us down in peace, and rife with hope immortal, and live in joys eternal! Amen.

Merlinus Liberatus.

BBING AN

ALMANACK

For the Year of our Redemption,

1789,

Being the First after Bissextile, or Leap Year; And from the Creation of the World, according to the best History, 5736,

And the 100th of our Deliverance by K. William, From Popery and Arbitrary Government; But the 94th from the

Horrid, Popish, High-Church, Jacobite Plot.

Wherein are contained all Things fitting and useful for such a Work; a an Ephemeris of the daily Motions of the Planes, with their variou Configurations, Afpects, Conjunctions, Luna Ens. Eclipfes, Aftrono mical, Aftrological, Meteorological Observator Die Bifing and Settin of the Sun, Moon, Planets, and fixed Steen improved with Tables of the Tides, Terms, and daily Equation of Cocket Length and Break Increase and Decrease of Days, Semidium and Jessinocturnal Arche for several Latitudes, a Chronology, Reast to the Divisions of the Heavens, with Judgments of the Eclipses and Sections, handled ac cording to the Rules of the Ptolomean Afficiogy, with many other Things relating to the Truth of Aftrology. And will equally ferv alfo for either Parker's or Saunders's Almanack, as it contains mo of the useful Parts of those other two Works, and White's Ephe meris contains the reft.

Calculated for the Meridian of LONDON.

By JOHN PARTRIDGE - Etiam Mortuus loquitur.

LONDON.

Printed for the Company of STATIONERS; And Sold by Rober: Horsfield, at their Hall, in Ludgate Street.

[Price stitched Nine Pence.]

Digitized by GOOGLE

Table of the Common Notes, and Moveable. Feafts, for the Year of our Lord 1789

4 Eafter Sunday April 12 - 3 Rogation Sunday May 17 D Ascension Day May 21 Dominical Letter Cycle of the Sun : 44 -6 Whit Sanday May 31 Roman Indiction - 7 Trinity Sunday June 7 Number of Direction - 22 Sundays after Trinity - 24 Sandaye after Epiphany - 4 Advent Sunday Septuagefima Sund. Peb. & Year of the Julian Per. 6494 Ash Wednelday, Feb. - 25 Year of the Dionysian - 113

A Table of the 12 Signs, 7 Planets, and Aspects.

or Aries, Hend and Face.

M Taurus, Neck and Throat.

ar. Gemini. Arm and Shoulders.

S Cancer, Breaft and Stomach.

A Loo, Heart and Buck.

un Virgo, Bowels and Belly.

Libra, Reins and Loins.

m Scorpio, Secret Members.

Sagittarins, Hips and Thighs.

by Capricorn, Knees and Hams.

a Aquarius, Legs and Ancles. * Pisces, Fest and Toes.

J & Conjunction, In one Sign and Degree.

* Sentile, is & Signs, or 60 Degrees, D Square or Quartile, is 3 Signs, or 90 Degrees.

Δ Trine, is 4 Signs, or 120 Degrees.

. & Oppolition, is 6 Signs, or 180 Degrees.

MA 1 Hot and dry, Fiery n ← #Hot and moift, Airy Y A # II - MDiur Mascul. ஷ ஊ உழ Cardinal & Movea.

西親上 K Common Signs

II & m are Barren

と 政党 Cold & dry, Earthy 25 m & Cold & moift, Watery

5 Saturn.

4 Jupiter.

Venus.

Mercury.

O Sol, or the Sha.

D Luna, the Moon.

& Dragon's Head.

@ Part of Fortune."

B Dragon's Tail.

O Tellus, or Earth

と双沙雪町 光Noct. Femin.

Bam #Fixed Signs ... mm KFruitful Signs

II X Bicorporeal

The direct Lineal Descent of Kings Names. Reigns began. His Majesty K. George III. William Cong Ott. 14, 1066 Henry II. K. of England, had William Rufus Sept. 9, 1087 Maud mar. Hen. the Lion, D. Henry 1. -Aug. 2, 1:100 of Bavaria and Saxon, had Stephen - - Dec. 1, 1135 Wil. of Lun. mar. Helena, D. Henry2.Rosam.Oct.25,1154 of Worldemer, K. of Den. had Richard 1. - July 6, 1189 Otho D. of Brunf. and Lunen. lohn April 6, 1199 Henry 3. - Oct. 19, 1216 Albert the Great D. of Brunf. Edward 1. - Nov. 16, 1272 - had -Albert the Eat. D. of Bounf. Edward 2. - July 7, 1307 had -Edward 3. - Jan. 25, 1327 Magnus D. of Branswick Ric.2.W. Tyler June 21, 1377 had Henry 4. - - Sept. 29, 1399 Mag. Torquat. D. of Bru. & Lun. Henry 5. - Mar. 20, 1413 Henry 6. - - Aug. 31, 1422 Bernard D. of Brun. & Lun. - had Ed. 4. J. ShoreMar. 4, 1461 Frederick Duke of Lunenb. Edward 5. - April 9, 1483 Richard 3. - June 22, 1483 Otho the Great D. of Lunenb. Henry 7, - - Aug. 22, 1485 Henry 8. - Apr. 22, 1509 Henry Duke of Lunen. had Edward 6. - Jan. 28, 1547 Ernest Duke of Lunenb. had Mary: 1. - -July 6, 1553 Wil. D. of Lunen. Zel. had Elizabeth, mar. Fred. K. of Elizabeth - Nov. 17, 1558 Bobemia, had Geo. P. of Cal-James 1. - - Mar. 24, 1602 lenbar and D. of Hanover, Charles 1. - Mar. 27, 1625 had Sopbia, mar. Ernest Au-Charles 2. - Jan. 30, 1649 gustus Bishop of Osnaburgh, Feb. 6, 1685 and Elector of Brunswick James 2. - -Will. 3.&M. 2. Feb. 13, 1689 Lunenburgh, had George, by Mar. 8, 1702 the Grace of God, King of George 1. - Aug. 1, 1714 Great-Britain, &c. who had George II. who had Fred. Pr. George 2. - June 11, 1727 George 3. - Oft. 25, 176c of Wales, who had George III. his present Majesty, whom God preserve.

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TIDE TABLE.

A general Tide-Table, thewing the Time of High Wate

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ROYAL FAMILY, &c.

BIRTH-DAYS of the ROYAL FAMILY.

King Gronge III. June 4, 1738 Prince Aug. Bred. Jan. 27, 1778 Prince of Wales, Aug. 12, 1762 Prince Adolph. Fred. Feb. 24, 1774 Prince Frederick, Aug. 16, 1763 Prince Mary, April 29, 1776 Prince Wm. Henry, Aug. 21, 1765 Prince Sophia, Nov. 3, 1777 Prs. Cha Aug. Mat. Sept. 29, 1766 Prince famelia, Aug. 7, 1783 Prs. Cha Aug. Mat. Sept. 29, 1766 Prince famelia, Aug. 7, 1744 Prs. Augusta Sophia, Now 3, 1768 Prs. Augusta of Brun. Aug. 11, 1737 Prs. Elizabeth, May 22, 1770 Duke of Gloucester, Nov. 25, 1743 Prince Ernest Augustus, June 5, 1771 Duke of Cumberland, Nov. 7, 1745

SOVEREIGNS of EUROPE, their Accession, &c.

Kingdoms, &c.	To whom subject.	When born.	Began to reign.
England, &c.	George III.	June 4. 1738	Oct. 25, 1760
France	Lewis XVI.	Aug. 23, 1754	May 10, 1774
Ruffia	Catharine II.		July 9, 1762
Spain -	Charles III.		Aug. 10, 1759
Portugal	Mary ·	Dec. 7, 1734	Feb. 24. 1777
Pruilta	Frederic IV.		Aug. 17, 1786
Denmark & Norway	Christian VII.		Jan. 14, 1766
Sweden	Gustavus III.		Feb. 19, 1771
Germany	Joleph		Aug. 18, 1764
Poland .	Staniflaus III.		Nov. 25, 1764
Holland	William V.		Oct. 11, 1751
l'opcdom	Pius VI.		Feb. 183. 1775
Sardinia	Victor .		Mar. 20, 1773
Ottoman Empire	Achmet IV.		Jan. 21, 1774

The FULL WRIGHT of the Coins, with the LEAST WRIGHT allowed to pass of the Gold Coin.

WEIGHT All	owed to pais of t	ue Goid Moin	. "
Wt. allowed.	Full Wt.		Full Wt.
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Half Guinea, 2 16	2 1654 Half Cro	wn,	9 16.8
Quarter Guin. 1 8	1 8 72 Shilling.		3 2028
	5 989 A Crown, 2 1689 Half Crov 1 872 Shillings Six Pence	, '	I 2244

According to the above proportions it appears, that the value of a /b. of filver is 62s. or 31.2s. and of a /b. of gold is 445 guineas, or 461. 14s. 6d. Also that the oz. of filver is 5s. 2d. and the oz. of gold 31. 17s. 10dd. So that the value of the standard gold is 15 times that of the filver, and 14th more.

A TABLE of TERMS and RETURNS for 1789.
Hilary Term begins January 23, ends February 12. Returns or Effoign Days. In eight Days of St. Hilary. January 20 21 22 23 Friday In fifteen Days of St. Hilary. Chatho Morrow of the Parif. of bl. V. M. Fab. 3 4 5 6 Friday In eight Days of the Parif. of bl. V. Mary, 9 10 11 12 Thurf.
Eafter Term begins April 20, ends May 25. In 15 Days of Eafter, April 26 27, 28, 29 Wedney From the Day of Eafter in 3 Weeks, May 3 4 5 6 Wedney From the Day of Eafter in 1 Month, - 10 11 12 13 Wedney From the Day of Eafter in 5 Weeks, 17 18 19 20 Wedney On the Morrow of the Aftention, - 22 28 24 25 Monda
Trinity Term begins June \$2, ends July 1. On the Morrow of the holy Trinity, June 8 9 10 12 Friday In eight Days of the holy Trinity, - 14 15 16 17 Wedney In fifteen Days of the holy Trinity - 21 22 23 24 Wedney From the Day of the holy Trinity in 3 Weeks, 28 29 30 3.1 Wedney
Michaelmas Term begins Nov. 6, ends Nov. 28. On the Merrow of All Souls, Nov. 3 4 5 6 Friday On the Morrow of St. Martin, 12 12 14 16 Monda In eight Days of St. Martin, 18 19 20 21 Saturd In fifteen Days of St. Martin, 25 26 27 28 Saturd
N. B. No Sittings in Westminster-Hall on the 2d of February, Ascen- fict Day, and Midsummer Day. The Exchequer opens Eight Days before any Tesm begins, except Tri- nity, before which it opens but Four Days. Now, That the first and last Days of every Term, are the sirst and last Days of Appearance.
OXFORD and CAMBRIDGE TERMS.
OXFORD TERMS. Lent Term - begins January 14, - ends April 4. Eafter Term - begins April 22, - ends May 28. Trinity Term - begins June 10, - ends July 18. Michaelmas Term, begins October 10 - ends Dec. 17. The AC is July 13.
Cambridge Terms,

Lent Term - begins January 13. -Easter Term - begins April 22, -Michaelmas Term begins Ottober 10, ends April 3. - ends July 10. ends Dec. 16. The Commencement will be July 7.

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1	A	l	1		Ð	1	14	-	3	20	11	22	filling the hearts of
D	-1	Δ	Δ			Δ	14	30	4	13	mo	OT TR	a credulous people
110	+-	1	1		*		14	25	5	6			with astonishment,
1		0	1	١.	l		14	21	5	58	I		it is no more than I
1		١.	1	*			14		6	50			expect. Some per-
2			T _C				14	9		41		34	fon of note is about this time vifited ei-
2	- 1	*	ុខ	١.	Ŀ	*	, .		8	30 18			their by death, af-
Ī		1			8		13	54	9				fliction, or fore dif-
ł	3		1	8	7	,	13	37	110	_			grace. Expect mur-
t	4 6	ا	1	7			13	28	3 1 1				murings and poss.
	5 1		Δ	1 -		1:	13	18		211			bly some disagree
	6		1	١.	1.	6	13			53	1 -	ai 8	Bable news about
	7		1	1	*	<u> </u>	12	57	1 1	35		29	chis time.
, 3	8			*	1	1	12			19			Fælix qui petuit
:}	1		1	1	1.		1		1				rerum cognoscere cau-
		1					1						Sas.
		:1		1	1_		1		<u> </u>				<u> </u>

Ł	2	March hat	h X	X	ΧI	D	ays	•	,	M 5 4 D D X 25 1
· . ·		But Sol advancing Soon makes the Da While bluffring W	ly out	bale	HCG	Nig			,	1 13 20 3 6 14 20 3 11 15 20 2
:	. 101	From the cold Rep And Winter, as if				orth	5		•	16 15 20 2
-		Retires unwillingly							•	21 16 20 2
M D		Sundays and Remark. Days.	00	×	0	, ,	3 3	25	¥	
100-1		1 Sund. in Lent	11	25	0	84	2 27	18	24	David.
		Chad.	12	25	13		9 27			
100	r	Ember Week.	13.	-	25		1 28			
4		Sun rises 6. 26.	15	25		п5				
5	F	Sun rifes 0. 20.	16	25	22		4 30			
7		Perpetua	17	-	20	-1 -1	ĭ Ж		20	
8	D	2 Sund, in Lent		24	1	a 5	- (27		
9	M	Sun fets 5. 42.	19	•	19		-1	1 %	18	
10	T	Day br. 4. 24.	20	24	5		5 4		17	
2.7	W	The second secon	21		20	1		1.	16	
12		Gregory	22	23		△ 2			15	
13		Sun rises 6. 8.	23 24	-	20			1 2	15	and frorms in
44		3 Sund. in Lent	25	2 3	18	m3		6	14	many places.
16	м	, , ,	26	22		2 14			13	Frosty.
17	T	St. Patrick	27		14	+ T	1	1 4	12	170,00
18		Edw. K. W. S.	28		27	-	7 1 2	1	11	,
1.9	T		29	21	9					6 6 6 6 6 6 6
20	F	Day ends 8. o.		20	21	3	0 12	12	11	6 2 \$
1.		Benedict Midlent Sund.	1	20	1 -	# 3	0 12	13	11	Stormy
23		Midient bung.	2		15		1 13			
24	T	Sun sets 6. 12.	3		27		114			
25	w	Lady-Day.	4	17	9			17		
26	T		5. 6	16			3 15	10	7 F	658,A49
27	F,	Day br. 3. 45.	7		1.5		0.17			
28	S		8-	15	27	4	018	22	12	uncomfortable
29	P	5 Sund. in Lent.	9	14	10	R i	19	23	12	- weather.
30	VI.	C C	10	₽3	2:2	5	119	24	13	• (7)
3,1		Sun rifes 5. 34	II	12	5	114	ZO	'Z5	14	Δ48

1年21日の日の日本が別の1万日日

M	J.	oste u t l		Ven Sou			P	art	rid	ge.		M	arch, 1789. 13
. 1	.8		5 2	2	33		Fi	A (200	rte	41	h L	Day at 11 Night.
· 6	8			2	39	1	Fu	ll P	Moc	n.i	Ith	\mathbf{D}	ay at 2 Afternoon.
41	7	∴ 5	8 2	Z	45		La	ıt (<u> Loa</u>	rter	1.8	th I	Day at 2 Afternoon.
16	7:	ં4	O Z	2	50	>	Ν£	w:	Mo	om 4	86t	h D	av at 7 Afternoon.
21	7.	. 2	0 2	2	55	; 11	ŧD	ay ˈ	ъS	out	h o	10	. 6 23 4. 6 0 42.
26	,.			3	-	2 1	6th	D.	b S	out	h 2:	718	3. 6 22 55, 2 22.59
M										on			Observations.
D	0	b	4	3	\$	¥	fa			ıth	•	_	
D					. ;		12	3 3		1 5	108	39	No less than 12
2		*	*			*	I 2	20	.3				aspects appear this
3							12	7	4	45			month, and all of a
4	۱a.			,	1		11	54	5	39	0	5:4	benign nature, and
5				Δ	Δ	O	11	40		35	1	53	every one of the pla-
16)	ļ	6			.	Ţſ	25	7 8	33	2	46	nets, both superior
7 D	4	Δ	23			Δ	ĮΙ	10	8	31	3		and inferior, are in
D		10	"				10	55	9	28	4	10	play.
19		0		8	8		10	- 39	10	25	4.		
10			1			8	10	23	11	20	5		not given to unravel
11	18	8	*	•			10	7	m	orn	D	rife	every thing that oc-
1:		15.1		1			9	50	0	15	7	a 39	curs; because tho
Į,	3	Ro-		١.	ŀ		9	33	1	9	9	O	every aspect has a
1.	4 .	1.	1.	Δ	Δ	Δ	9	16	2	4	10		meaning, yet if that
11	۵۱	10	Δ			١.		58	.2	59	11		meaning will not
1			1.			a	8	41		54	m	orn	enter into my head,
1	7	0	1	1	-	١.	8	23		48		38	I shall only mislead
	8 🗖	1					8	5		40		32	my honest reader.
1		*	8	*	*	*	7	4.7		31			
	ر ا		13	1			7	29		20			enow who will from
12					T	1	7	-	1 -		1	26	such a fet of propi-
	D)	`] .				6	5:	8				tious aspects, prog-
2	3	١.	1	1	1	١. ـ	6	3:	•	135		. í:	nosticate peace on
12	4 -	d	Δ	6	6	8	. 6			17		3	earth, and amity a
	5	1			116		5			59			mong nations. I
2	6,0	١.		1.	1	1	5			.41		ſet	swish it may be fo,
2	-	7		1.	1	Ľ		.19		a25	7	22	lout it is not my o-
2	8		-		1	ľ.	2		•	11) j	opinion.
	D		. i 功	*	١.	*	4			٠	1 .	. 4	2 When people of
- 13	0	k	١,	-	*	1	4	•	•		10	5,	different principles,
1	11	1		1	1	10	١.		- 1	4	111	51	6 different politics, &
**	-	-	·										

14 April has	hΣ	X	X	Day	ys.		, .	DX ST
The weeping April Anti oft a fable 90 The clouded Main The teo long froze And Swains mjoie Productive are of	ate fin n, chu in Ea e, G	e we lob rth r	nts: er E elie Apri	ive, va; i Sho	m,ts	<u>.</u>		1 17 20 1 6 18 21 1 11 18 21 1 16 19 22 0 21 19 22 0 26 26 22 2
M W Sundays and D D Remark. Days	ô	· 9	0	1	- 1 -		×	
1 W Day br. 3. 33.	1.2			11 5 5 25 1 8				
3 F Richard 4 S St. Ambrofe	14	8	16		23	1	17	
6 M Sun fets 6. 38.	17	6	29	4	24	3	18 19	showers.
7 T Day ends 8. 43. 8 W 9 T Maundy Thurf.	18 19 20	4	28	攻 53 46 ≏ 33	26	5	21 22 23	Seafonable
10 F Good Friday	2 I 22	1	28	• •	28	8	24	pleasant
D Easter-Day Easter-Monday Easter-Tuesday	22 23	5 9	26 9		30	10	26 28	the season, which we may
15 W	24 25	55		42 1921	2	14	Y	hope to continue
16 T Day or. 2. 53. 17 F Sun rises 5. 1.	26 27 28	53 52	29	41 47 44≈	3	15 16 17	3	end, when 684 an alteration
19 D Low Sunday	29	49 47	23	37 € 29	5	19 20	6	Alphege may be expected
21 T 22 W Ox: & C.T. beg.	1 2	46 44	29	25 27	7	2 l 2 2		□ ¼ \$
23 T St. George 24 F 25 St. Mark	3 4	ÀI	24	Υ40 3	اما	24 25	14	Prs. Mar. b.
25 D 2 Sund.aft.East. 27 M Sun sets 7. 17.	5 6 7	37	19	27	10	27	17	Perbaps some downfallabout
28 T 29 W Eafter T. begins	7 8 9	34 32	15	44	12	30 8	2 1	tbis time.
30 T Day ends 9. 54.	lo	30	129	2 51		2	-	

M	74				ıus	Ī	I	ar?	tri	dg	e.	P	pril, 1789. 15
D	-	rat	1 5	ou	<u>th</u>	╄-							
l	6		.2 2	_		ᅥ	Fi	rit (Qui	arte	r 30	d T	ay at 8 Morning.
6	-	2	5 2		10	1	Fu		7	n g)th	1) a	y at 11 Night.
11	6		8 2		1		La	it d	Zua	T.E.	-17	r L	Day at 8 Morning.
16	1)	5	1 2	3	1		U D	. W	KT (on Sam	25t	6 L	ay at 10 Morning.
21	5		8 2		2	3 1	にレ	ay D	D (90u 2	lii 2 •h a	2.3	7, 6 22 43, 9 22 21.
26		_	:OF							on.			
M	ļ —	u D.											
D	0	þ	24	8	3	ğ	1	aft_	1	uth			
1		0		0			3	47				otn	different interests,
2						1	3	29		34		51	all make the greatest
3		Δ	ઢ	Δ		Δ	3	10		30	1	38	shew of friendship,
4	•		8		Δ		2	53	7 8	26		10	there is the greatest
D	Δ						2	35	•	21		50	reason in the world
6	1 .	_		_			2	17	9	15	3	19	to believe that there is much fallacy and
7		8	*	8	_	8	2	C	10	8	3	45	diffimulation among
8	1 -	١. ١	-		8		I	43	II	2	4	-16-	them, and that fuch
9		1	0				I	20		57 orn	, ע	LIIC	connections can ne-
10	1			1			6	9	0	52	0	•50 •6	ver hold long.
D	1	Δ	Δ				0	52 36	I	47		26	
1-				Δ	Δ	Δ	0	21	z	43	11		pects are the fore-
13		٦		0	_	0		a 5	3	38			runners of human
115				u	0	5	0	10	4	31	0	10	events, the difference
1i	5	*	8		_		0	25	5	21	1	ó	of the natures of the
117		T	٦	*		*	0	39	6	9	1	33	planets, and their
118				*	*	~	0	53	6	55	2	0	mutual vifits with
D	*			1			1	6	7	39	2		each other, seem to
20) 						1	19	7 8	21	2	46	point out more nego
Ź		ర	Δ				1	32	9	3	3	5	ciation than honesty;
22	2	9		ઠ			I	44	9	45	3	24	and when the time
23			0			ઠ	1	56	10	28	3	45	arrives, I believe in
24	4		Ì	'	b	2	2	7	11	13	4	_ 6	will appear fo, espe-
	22		Ī		z	Ì	2	17	.0)	lets	cially as three male-
.JD	1	*	*			ľ	2	28	0	52		15 O	volent squares are
27			1	*	. :	١.	2	37	. 1	45			this month threat-
28		•	I	ł	I	*	2	4:7		40	10	53	ening the world
20			۱.,۱	_	*	ł	'2	. 55	3	30	11	43	with their baneful
39	*	Α	ø	0	}	١.	3	- 3	4	32	E E	720	infigence.
1	1.	1 .	Ι.	١,	٠.	4-	4 .		•		•		

6 May hath 2	XX	Days	•	M b 4 D D X SE 1
Now Flora, beautiful	and gay	,		12023 0
Doth bid all hail to v	velcome	May ;		6 21 24 m
And Meads, and Ga				11212429
With Flowers deck'd			n;	15 21 25 29
The Warblers sweet And Birds, and Beast	exert the	den reinic		21 22 26 29
And Birds, and Beau	s, and h			26 22 27 28
-1 1 1 1 1 1 1	. ف الج	50	A 2 7 7 1 1 1 1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Aspects and
) D Remark. Days.	-		& 8 W	Weather.
1 F St. Phil. & Jam.	11 28	269543	14 4 26	
	12 26	10246	15 5 28	to be usbered
3 D 3 Sun. aft. Eaft.	13 24		16 6 30	in with fine
4 M Day br. 1.55.	14 23	-		
5 T		23 45		and springing
	16 18	. 1		Showers.
7 T	<u>.</u> .	1 .	1911 8	1
0 1 10 000 11100 40 241	18 14		191210	
9 S	4		20 13 12	
o D 4 Sund, aft. East.	20 10		21 15 14	
I M			22 16 16	
2 T Old May Day	_		22 17 18 23 18 21	
		- 3		Then fair and
14 T Sun fets 7. 46.	24 59	, ,		60¥,*04
16 S	25 5	19 41	26 22 27	* 5 9,0 4 8
17 D Rogat. Sund.	26 5	1 1 34 34	26 23 29	*44
18 M	27 5		27 24 1	
19 T Q. Charl. b.	Dunst		28 26 4	1
20 W Day br. 0. 30.	29 4	-	2 29 27 6	
21 T Ascension Day	0114			B Dark and
22 F Prs. Eliz. b.	1 4	3 282	2 8 29 10	cloudy towards
23 S Sun rises 4. 2.		015 1	-	
24 DS. after Afcen.		8 28 1		
25 M East. T. ends		611114		
26 T Augustin		3 25 2	3 3 4 1	
27 W Ven. Bede		1 9251		
28 T Oxf. Termend		8 23 2	1 4 72	2 D 5 \$
29 F K. Ch.II. reft	1 .	6 7823		41 4
30 S		-	1 -1 -1	6 9 O B
21 D Whit-Sunday	110 2	THE OHE	4 7102	oj .

M D	ÿ⊭ So	pit.		Ye.			1	ar	ţŗį	dge	,]	Ma	y, 1789. 17
1	75	-	3	23	3	* F							at 7 Afternoon.
6	1			23 23	3	5 I	aft	Qu	art	ti 1	7th	D	ay at 2 Morning.
16	4	j	13/2	23	4	-1 1	Vew	M	oon	24	th I	Jay	at 10 Night. y at 8 Night.
21	3			23	50	એ. ^દ	a T	יש	h.	S. 2	10 4	18.	3.22 16, 8 23 7.
26	3	4	2		50	-1			٠.				
M		_				-		JW.	So	uth	82	iles lets	Observations.
D	0	ځ.	74	3	\$	٠ğ							
1	•	7	_			0	3	11	5.5	2 7	on	123	As cold waters to
2	ò	• >	ŀ	Δ	_	-	3	18	6	21	0		a thirty foul, to is good news from a far
D	-			1	Δ	Δ	3	25	7	13	1	-4	country. Prov. xxv.
4	Δ	6	١			·	3	31 36	8	5	·1	53	25:
5		8	*	8			3	41	9	57 49	2		News is daily ex- pected. If you alk
7	,	:		0			3	46	10	43	3		from whence ? I will
7 8	8		_		8	8	3	49	11	38	3	37	ask you how many
9 D	21	Δ	Δ				3	53	mo			ises	quarters there are
i			,			1	3	55	0	33	•	17	have then given an
11		0		Δ			3	58	1	28	10	12 55	answer to your own
12	١, ١						3	·59	3	14	10	3 5	question. But while the world endures,
13	Δ	*	8	Ó	Δ	Δ	4	. 1	4	4	mo	_	good news cannot be
15	-	-	,				4	0	4	51	0	5	expected from all
16		,	-	*	0	0	4	0	5	36	0	29	quarters of this ter-
D	α.						3	58	6	19	0) -	restial globe. And in- deed in many cases, as
18		9	١.,		- i		3	56	7	0	1	10	when countries are en-
19	*	16	Δ		*	*	3	54	7	42 25	1	30	Earca in faile uruce.
20		9%	0	ઠ			3	47	9	9	2	77	or fea engagements; what is bld news to
22	-		-	19			3	42	9	56	2	36	the loser, is good
23	1	*	*	7	: :	-	3	3.8	-	45	3	- 4	news to the winner;
Ď	ઠ	Ì		ŀ	d	,	3.	32	1.1	37	Di	ets	while those who are
25	10	-			5	ૃત	3	27	1	32		-	unconcerned in the
26		0	··	*	•	10	3	20	1 2	26 26	10	39	bhan mand aha Garail
27	1	Δ	ઠ		; `		. 3	13	3.	22	10	23	of an engagement
29		بن	7	"	*		, z.	59	1	17	11	30	wherein for many of our fellow-creatures
30			 			*	2	50	5	10	11	57	are made a prey for
Ď	0			Δ			2	42	6		mo		fishes or worms.

18 June hath	XX	x :	Days:				M 7 4 5
Now to the shade we And slee the Sun we Or while he darts his We panting bathe in And oft at even see h	late flari cool im f	did ng ing	court; beams, ftreams;	1			1 23 28 28 6 23 29 28 1 1 23 30 27 16 23 St 27 21 23 2 27 26 23 3 27
M W Sundays and D D Remark. Days.	0	П /) Lon.	ਰ 8	⋣	П Ā	Mutual Aspects And Wea her
M Whit. Monday Whit, Tuefday WEmber Week	13	15 13	20mg17 4-26 18 28	8	1.4	9 3	pleasant wea-
T K. Geo. III. b.	15	10 8 5	16 3 29 34	11	1.7	6	
7 D Trinity Sanday 8 M Sun lets 8h 13m. 9 T 10 W Oxf. Ter. begins	18	57 54		13	20	l I 1:2	Rain on bail.
11 T St. Barnabas 12 F. Frin. Ter. beg. 13 S	20 21 22	51 49	3##32 15 39	15	24 25 26	15	Cor.C. *∂\$
14 D 1 S. afc. Trin. 15 M Sun riles 3 44	23 24 25	43 41 38	21 26 3 Y 23	1.8 1.8	20	20 2 I	Pleasant, with refreshing showers, and
17 W St. Alban 18 T 19 F 20 S Tr. Ed K.W.S.	26 27 28 29	3 2 30	27 48 10825		3 4	23 23	brijk winds; \[\Delta \geq \geq \geq \geq \geq \geq \geq \qqq \q
21 D 28. aft. Trin. 22 M 23 T Sun rifes 3 43			бп41 20 24	23	6	25 26	Longest day * b & thunder
24 W Nat: J. Bapt. 25 T 26 F Sun sets 8 16	3 4 5 6	16	18 49 3:St 21	24	10	27 27	Midfum. day
28 D 2 S. aft. Trin. 29 M St. Peter	7.	7 5 2	2 mr 34	26 27	14	28 28	The air Suliry
30 T	8	5 4	15 21	28	17	29	* & A

M		pit Bt		Ver Sou		1	Pa	rtridg	e, Ju	ine, 1789. 19
-	-		-			-∤	eli Mo	on #*	h Day	at 8 Night.
1	3			0	1					
6	3		4	0	7		ait Qua	rter 15	III Daj	y at 7 Night.
11	2		19	0	13	SIN	ew ivi	on 23	a Day	at 8 Morning.
16	2	3	Z	0	19	Z F	irit Qua	irter 25	th Day	vat 12 Night.
21	2	1	5	0	26		d Day			3 21 41, \$ 1 19
26	ı	5	9	Q	3.1	110	oth D. h	S. 17	7 54,	3 21 22, ¥ 1 49.
M	L	8 9	4 F	Afp	ect	В.	Clock			· Observations.
D	0	þ	.4	3	\$	ğ	flow	South	& fets	
T.	-	~	-	-	-	_		6252	Om 21	The good which
1		8.	*			O	2 33		0 46	I would prognosti-
2	Δ		ŀ	ŀ	Δ		2 24	7 43	•	
3			0	_			2 14	8 34		vice to our merch-
4				8		Δ	2 4	9 26	1 36	ants, that their good
5		Δ	ļ,				I 54	10 20	2 7	thips are feverally
		•	Δ				1 43	f1 14	2.43	
D					8		1 33	morn.	Driles	their destined ports;
8	8				· '		1 22	0 8	8a47	that their deftined
9	١. ١			نک		8	1 10	1 1	9 29	home-bound lading,
10		*	8		1		0 58	1 52	IQ 2	is in good order, and
fI	١.		_	ŀ			0 47	2 41	10 20	great plenty; so be-
12	Δ	Ì	1	0	Δ	}	0 34	3 27	10 52	ing undoubtedly rea-
13		,	ŀ		_	\$	0 22	4 to	11 12	fonable, is (or ought
D	١.	l	l	*		_	0 10	4 52	11 31	to be) a bleffing to
15	1	ಕ	Δ	~	0	Δ	Obef 3	5 33		the merchant; his
16		i	4	1	u		× 1	6 15	,	huyers, the retailers, their buyers, & more
1:	+	3	l	1						or less to the whole
18	. I	١.	_		.,	0	0 29		1	community. But a-
				١.١	*	١	0 42	7, 43	0 33	las, things were not
19		١	1.	၂၀		١, ١	0 55	8 30	· - J7	latanana Garanian I
20 []		*	*	19		*	1 8	9 21	. , ,	is so connected with
1	1	l	-				1 21	10 15	2 9	trade, that it is much
2:	•	0	1	[1	1 34	11 11	2 58	easier to raise a price
	3 20	ſ	1		d	.]	1 47	02 9) fets	than to fink it. What
2		Δ	6	*	6	ઠ	2 0	1 7	8251	I bought at an ad-
2	5	1	22		: I	14	2 13	2 4	9 28	vanced price favs the
20	5	!	1			. 1	2 25	2 59	9 56	trader, I must sell off
2	7 *	1	1		*		2 38	3 52	10 21	accordingly, other-]
1) (8	1	Δ	"	*	2 50	4 43	10 45	wife I unavoidably
2	ا و	1	*	1-1			- 1		11 0	fink in my fortune;
13		1	1	1 1		.	3 2		/	well fay I, fell that
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A Table of HOUSES for the Latitude of 51 Degrees 32 Minutes, according to the Doctrine of Ptolemy, ferving the City of London, &c.

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A TABLE of HOUSES for the Latitude of 51 Degrees 32 Minutes, according to the Doctrine of Ptolemy, ferving the City of London, &c.

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A TABLE of HOUSES for the Latitude of 5t Degrees 32 Minutes, according to the Doctrine of Ptolemy, ferving the City of London, &c.

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A TABLE of HOUSES for the Latitude of 51 Degrees 32 Minutes, according to the Doctrine of Ptolemy, ferving the City of London, &c.

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A TABLE of HOUSES for the Latitude of 51 Degree: 32 Minutes, according to the Doctrine of Pielemy, ferving the City of London, &c.

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A Table of HOUSES for the Latitude of 51 Degrees 32 Minutes, according to the Doctrine of Ptolemy, ferving the City of London, &c.

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Of the Eclipses, and other Phoenomena, in the Year 1789.

A T the latter end of the year 1788, or the beginning of the year 1789, a Comet is expected to appear; concerning which nothing certain can be determined at present, for want of sufficient observations of the antients, and not correct enough to be relied upon. This too might in all probability be owing to their false conceptions of the real nature of Comets, which they looked upon as prodigies, and blazing meteors, lighted up in the heavens, as forerunners of some notable missortunes, and strange mutations in this our sublunary globe; therefore in ancient history, upon the destruction of empires, or the depopulation of cities by plague, pestilence, or famine, we generally find an account of a blazing Star with a large fiery Tail, which was feen in the heavens at or before that time, terrifying every beholder for several nights successively. The diligence however of later Astronomers has established beyond a doubt that they are opake, spherical, and solid bodies, and perform their periodical revolutions about the Sun in orbits vafily elliptical, which have the Sun in one of their foci. They differ from the Planets in this: They move in various directions, some the same way with the Planets, others in contrary directions. And while the planetary motions are confined within the Zodiac, their orbits admit of any inclination whatever; and the excentricity of them is fo very great, that some of them perform the greatest part of their motion nearly in right lines, tending in their approach to the Sun almost directly towards it, and after leaving it flying off in almost a right line, till out of the ken of man, and appear as if they were hastening away to the fixed stars. Although at prefent, for want of fufficient observations, not many things can with certainty be faid upon either their number, or their periodical returns, yet the learned and Rev. Mr. Rowning has remarked thus: It feems probable that the Comet which appeared in the year 1682, was the same which was feen before in the year 1607, and the year 1531, and has a circuit of about 151 years. And the great Comet which appeared in the year 1680, was the same which vas seen in the time of K. Henry I. in the year 1106, in

531, and in the 44th year before Christ, in which Julius Cæsar was murthered. As to the Comet expected, I shall only add, that as the Comet of 1531, 1607, and 1682, returned in 1759, there is no doubt but all others will return at their proper periods; and the Comet of 1532 and 1661, being thought to be the same, its return is expected at the latter end of 1788, or before April 27, 1789.

As the mention of a Comet feldom comes under the notice of an Almanack, whose particular business is only to predict and draw inferences from the phenomena which shall happen in the year for which they were calculated, it may not be amis to enlarge a little more on this subject:

The ancients (as we have before observed) being entirely ignorant of their nature, looked upon them as meteors kindled in the air, and portending some extraordinary event. As a proof of this a passage from Homer is sufficient.

As the red Comet from Saturnius fent,
To fright the nations with a dire portent,
(A fatal fign to armies on the plain,
Or trembling sailors on the wat'ry main)
With sweeping glories glides along in air,
And shakes the sparkles from his blazing hair.

The moderns however found that they were real bodies, moving in very elliptical orbits, and in various directions and different periods, being at some times extremely near the Sun, and at others immensely distant, by reason of which they are sometimes much hotter than Mercury, and at other times much colder than Saturn.

The Comet in 1680 came to near the fun, that it was not a fixth part of the Sun's diameter distant from his furface, and his heatthen was two thousand times hotter than red-hot iron; from thence it took its course from the Sun to the distance of above eleven thousand millions of miles, which is at least fourteen times further than the orbit of Saturn. The light and heat then of that Comet is therefore near two hundred times less than at Saturn, and above seventeen thousand times less than with us; and when it was nearest the Sun, the light and heat thereof was no less than twenty-eight thousand times greater than in our torrid zone.

What chiefly attracts the notice of the generality of people is the Tail of a Comet.—The Tails of Comets appear largest and most splendid immediately after their return from the Sun, because they then emit the most vapour. Agreeable likewise to the nature of vapour and smoke, the tail of a Comet lies always towards those parts which the Comet's body leaves in its descent. We may farther add, that as vapours, they rise the more as they expand; so the tails of Comets appear broader on their upper part than near the head. Another proof that they consist of a sine pellucid vapour is, that the fixed stars are often seen thro' the tails of comets. Lastly, These tails are exceeding long, some having been computed to be not less than eighteen millions of miles in length.

The conjectures of philosophers upon their uses are various. Certain it is that God made nothing in vain, but

in vain may we conjecture notwithstanding.

Some of the first rank in the philosophical world have imagined, that by the rarefaction, and spreading of the vapours of the tails of Comets, they supply the planets with moisture, which they suppose by vegetation and putrefaction, &c. continually decreases.

Others suppose, that Comets, in their several revolutions, approach nearer and nearer to the Sun, till at last dropping into it, they supply that great luminary with

fresh fuel.

Lastly, It appears to be the general opinion that they are instruments appointed by the Almighty to put a period to the planetary would, whenever his divine will shall so determine; which may be done either by involving the globe of the Planets in their passage towards the Sun in their atmosphere of water, and thereby drowning them, as it was with this earth in the days of Noah; or else, by advancing a little too near in their return from the Sun: This indeed was the case of the Comet in the year 1680, when the Comet came so near the orbit of the Earth, that had our globe then been in that part of its orbit, we must acknowledge that "The Globe itself, with all which it inberited, had dissolved, and, like the baseless shall which it inless had dissolved, and, like the baseless fabric of a vission, last not a wreck behind." But I speak only of what is possible, not of what is probable.

Of the ECLIPSES which will happen in the Year 1789.

WITHIN the compass of the present year there will be four Eclipses, two of the Sun and two of the Moon; but only one of them will be visible to the inhabitants of this isle. These will happen in the following order:

The first will be a partial, but to us invisible Eclipse of

the Moon, and will happen on May 9, as follows:

Beginning - 8h. 38 min.
Middle - - 9h. 31 min.
End - - 10h. 24 min.
Duration - 1h. 46 min.

Digits eclipsed 2° 54' on the Moon's northern limb.

But although none of this Eclipse will be visible to Europeans, in all the western parts of both North and South America it will be visible. The fore part of this Eclipse may be seen in East and West Florida, the Havannah and Jamaica; but the whole of this Eclipse will be seen at the Sandwich and Friendly Islands, discovered by that celebrated circumnavigator Capt. Cook; as also in New Zealand, new Holland, the Philippine Isles, Japan, and Yedso.

The second Eclipse will be a solar desect, on Sunday, the 24th of May; the conjunction is at 20 minutes and a half past 10 at night, therefore will of consequence be invisible to the inhabitants of Great Britain. It will however be a central Eclipse on the meridian at 18 minutes past 10, in Longitude 154° 29' West, and Latitude 11° 14' South of

Greenwich Observatory.

The third is a partial and visible Eclipse of the Moon, and if the air prove serene and savourable, may be seen by the inhabitants of this isle. This Eclipse will happen as follows:



Beginning Nov. 2, at 11h. 27m. night.

Middle - Nov. 3, at oh. 32m. morn.

End - Nov. 3, at 1h. 36m. morn.

Duration - - 2h. 9 m.

Digits eclipfed 3 deg. 40 m. on the Moon's

fouthern limb. See the type in the margin.

This Eclipse will be visible to all the inhabitants and states in Europe and Africa, together with the western parts of Asia, and the eastern parts of America. But in Siam, China.

China, Chinese Tartary, &c. in the eastern parts of Asiathe fore part only will be visible.

The fourth and last is an invisible Eclipse of the Sun, which will happen on Tuesday, Nov. 17, at 29 minutes

past 3 in the morning.

This Eclipse, although invisible to all Europe, will be visible in China, and the eastern parts of Great Tartary in Asia; likewise to the Island of Japan and Yedso. The Sun moreover will be centrally eclipsed on the meridian at 22 minutes past 3, in Long. 125° 31' East, and Lat. 14° 45' North of Greenwich Observatory.

Thus I conclude my Astronomical Observations upon the Eclipses of the present year; as to astrological remarks, as there is but one visible, and that to us a partial one, and in which all our neighbours are as much concerned as we, I think them at this time unnecessary, and hasten

to the Seasons.

OF THE WINTER QUARTER.

HIS Quarter commences the 21st day of Dec. 1788, at 2h. 14m. mane, when the bright Charioteer of Heaven first touches upon the cold, cardinal, and melancholy sign of Capricorn, the house of h and exaltation of , and the triplicity of 2 and D, and whose angel, according to the Arabian Astrologers, is Hunnel. Now has the Sun reached his utmost southern limits, short are his visits, and then, when veiled in a wintry cloud, even day itself seems benighted. This season is well pictured by Herace. Lib. I. Ode 9.

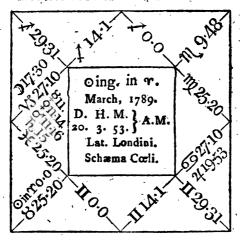
"Behold you mountain's hoary height,

Made higher with new mounts of fnow;
Again behold the Winter's weight

"Oppress the lab'ring woods below; And streams with icy fetters bound,

"Benumb'd, and cramp'd to folid ground."

I imagine there will be much confultation in the closets of princes; and the senators of every nation are contriving work for the more active part of the year. It is ushered in with a disagreeable aspect, which is followed by no less than three more, all as it were in the entrance of the year of a malign nature. It is certainly a very active ingress, ad apparently inclined to acts of violence.



OF THE SPRING QUARTER.

THIS Quarter begins on March 20, when the Sun enters upon the first scruple of the masculine, diurnal, equinoctial, and cardinal sign of Aries, the day house of 3, the exaltation of the 5, and the triplicity of 6 and 24, whose angel is said by ancient writers to be Muschidiel.

Sol, now mounting up the northern hemisphere makethe equal day and night, introducing the welcome Spring.

may be faid in his behalf, that he is not an idle devil; may the strictest bond of unity keep him from sowing differtion in the councils of the British nation; so may we yet be a happy nation. Let us be virtuous, and God, even our own God, shall give us his blessing.

THE SUMMER QUARTER.

HIS Quarter takes its beginning on the 21st day of June, when the Sun enters upon the fruitful, sostilial, cardinal, and most northern sign in the Zodiac, the sign Cancer; the house of the D, the exaltation of U, and the triplicity of S, 2, and D, whose angel, according to former writers, is said to be Muriel, making the longest day and the shortest night in this our hemisphere. Much hurry and consuston appear to be in many parts of the world, and they are the safest who have the least to lose. Some unexpected news from different parts. Rome still holds up her head, but seems to lay aside her scourge. There is an event to which all things are operating, but the manner of bringing it about is hid from human ken. I therefore hasten to

THE AUTUMNAL QUARTER.

HIS Quarter commences upon the Sun's entering upon the equinocial, diurnal, western, and cardinal sign Libra, whose angel is said to be Zuriel. This will happen this year on the 22d day of September, at 3h. 8m. P. M. I here must close my account of this pretent year, with observing that, in my opinion, it will be productive of great mutations; these however will all operate to one great end, but growing years will of this give a surther insight.

I cannot conclude without informing the curious, that on the 5th day of November there will be a remarkable transit of the Planet Mercury over the Sun's disc. This will be visible in England till sun set, and the latter part will be seen at the Cape Verd and Canary Isles, the Azores, Iceland, Greenland, and to the North and North-west, as far as Bassin's Bay.

The following calculation is from accurate tables:

Beginning

F F

Beginning th 10m P. M. Mercuries Lat. 9' 20" South.

Ecliptic Conjunction 3h 30m. 8' 16"
Mid. of the Transit 3 37 7' 17"
Sun fets - - 4 39

and - - - - 6 4 5' 15'

I conclude my predictions for this year with praying the Divine Being mittes from this our ifle, and what-

to avert all heavy calamities from this our isle, and whatever disturbances may be abroad, may we be blessed with peace and unity at home, and approve ourselves the loyal subjects of the best of Kings, whom God defend and preserve. Amen.

I T having, in this age of division in sentiments relating to religious worship, been enquired what was the doctrine of the primitive Christians, with respect to faith and duty, as taught in the facred Scriptures? we shall here give the following abridgement of the same in the words of Pollio, a Christian martyr, who died for the truth of

his holy profession, A. D. 304.

This Pollio, being a reader in the church of Cibales in Pannonia, was accused before Governor Probus of having derided the gods of wood and stone which the Heathens adored.—This man, being brought before the Judge, manfully confessed himself to be a Christian, and one of those who, in spite of tortures, would persist in his sidelity to the Eternal King; and in obedience to the divine commands of the wo d of truth, as given by his Lord and Saviour Jesus Christ.

Probus upon this demanded to know what those com-

mands were? To which Polito thus replied :

"These commands (said he) are they which teach us that there is but one God in Heaven. That images made of wood and stone cannot be called gods, nor be any way propitious to men. By these commands we must correct our faults by repentance, and persevere inviolably in the good we have embraced. That virgins, who maintain their purity, are advanced to a high rank: That married women ought to preserve their conjugal chastity, and attend to the education of their children: That masters ought

ought to rule overtheir fervants with mildred and soc nature: That lervants ought to acquit themi-lives of the duty rather from motives of love than fear: That we ought ito be obedient to the civil power in every thing that is just: That we ought to reverence our parents, love our driends, and forgive our enemies: That we must be tender and affectionate to all out fellow creatures, humane to strangers, charitable to the poor, and live in peace with all men: That we must do no injury to any one, and suffer with patience the wrongs which others do to us: That we must bestow our goods with liberality, and not coverthose of others: And that he shall live eternally who, in defence of his faith, despises a momentary death, which (says he) is the utmost punishment you can inflict."

Notwithstanding (fays my author) this noble confession, replete as it is with pure and heavenly fentiments, the Governor Probus ordered Pollio to be chained to a stake and burned to death.

Such was the faith, and such the character, of the Christians in former ages; and that it was a just one will appear from the fentiments of one of the greatest philosophers and wifest Emperors that ever governed Rome, wherein you will see a vindication of the Christians pronounced from the mouth of a Heathen; this was a letter written in the year of Christ 152, by the Emperor Antoninus to the states in Asia, who had accused the Christians of being the cause of several earthquakes which had hap-

pened in that part of the globe.

In this he advised the Governors to take great care, lest in punishing the Christians they should make them more · obstinate than before, instead of changing their opinions ; fince their religion taught them to suffer with pleasure and refignation for the lake of their God. As for the earthquakes which had happened, he told them, that they themselves were always discouraged, and sunk under such misfortunes; whereas the Christians never discovered more chearfulnels and confidence than upon fuch occasions. He. concluded with telling them, that he would not have the Christians injured; for although they did not workip the; gods of the Empire, yet they had a God of their own, and that they were a peaceable and inoffensive people.

INI

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A	Chronological Account of remarkable Occur	rences.
***	HE Creation of the World - Year	
	The general Deluge, or Noab's Flood	4140
	The Birth of Abrabam	3788
	The Foundation of Solomon's Temple -	2804
	The Babylonish Captivity	2496
	The Birth of our bleffed Lord and Saviour Jefus Chrift	1788
	His Passion, glorious Resurrection	1756
,	The heginning of the Ten Parlecutions by Nero	1717
	The Tower of London built :	1280
'	Cambridge made an University	3144
	Oxford made an University -	918
	William Duke of Normandy conquered England	723
	The Invention of Guns	411
1	The Art of Printing first invented at Barlein	359
	A great Plague in London, whereof died 30,578,	. 187
	The horrid Genpowder Treason	. 184
i	The Holy Bible new translated -	182
	Plague in Landon, of which, and other Difeafer died 5	
. 1	New England planted	159
3	King Charles I. beheaded -	141
	King Charles II, restored -	
C	Another Plague in London, whereof, &c. died near 100	129
	17,200 Houses burnt in London -	
2	A great Comet appeared in December and January:	123
7	The great 13 Weeks Front	109
-	King William III. and Queen Mary crowned, April 11	100
	England and Scotland united	8.
Ş	St. Paul's in London finished -	S.
١.,	Dages Annalish Annual search King General Language	
	Queen Anne died August 1; and King George I. began. Pressen Rebellion	.75
		1 - 1 74
	King George 1. died June 11; and King George 11, pro A splendid Comet, seen from Dec. 23 to Feb. 20	
	A Rebellion, when the Rebels came fo far as Durby	3.4
	The Date and Calendar aftered -	- 44
' '	The Militia Act passed	37
' '	King George-II. died-Oci-ag; and King Guest at IH.	31
1	King Gronge III. and Queen Cuantor Transmets	began 29
	Peace with France and Spain	Pr. 22 29
		-
	The Swedes forced to refign their Liberties to the Kir	
#		- 1 T4
·".	The Americans declare themselves Independent States.	- 13
'	The Franch figned the first Treaty with the American S	
٠.,	War against France commenced	- 71
	War was begun against Spain	÷ ; , 10
	War: againft Holiand commenced	9
	A general Peace:	- 6

PREFACE.

Begin my Preface this Year with my humble Acknowing ledgements to the Public for the many kind Letters which I have received from all Quarters; their Preference of my Lucubrations to those of other Presses under the same Signature claims my warmest Thanks; with a sincere Assurance that I shall not do as the others yearly practise, viz. hunt ancient Almanacks for dull Rhymes and stale Jests; but continue as I have hitherto done with something new—Norms semper sapit.—which is, according to my Grandson Jacob's Translation, "No Man is wise at all Times," or, if you rather chuse my Wife's Translation, it is thus:

Husband you're often a Fool.

Take which of these you please. - All I have to say is, that where my Head fails, my Heart is good; and when a Man has done his best, as there is no Degree of Comparison beyond the Superlative, he can do no more. The Calender Part shall be made to fuit the Public in every Line of Life; for which Reason the Tide Tableis continued for the Use of numerous Friends on the Maritime Parts of this Country, together with the Table of the Moon's Southing, with what other Tables either the Author or his kind Customers shall from Time to Time judge necessary towards completing a Work of this Kind; I am now perusing the various Letters Congratulatory and Odes Epistolary which I have received from various Parts of his Majeky's Dominions .- And here I cannot avoid my humble Acknowledgement for the truly tublime Ode in Greek, together with the two elegant Latin ones upon this Performance, and the delicate Manner in which it is conducted. But as these must suffer infinitely by a Translation, and to give them in the Original would be of little Avail to the major Part of my Readers, I omit a Recital; and proud as I am of them, like a good Member of the Community and Fellow-Citizen of the World, I facrifice my Vanity to the public Utility. Another Epistle now before me advises me not to deal too much in the Sublime. I thank the Gentleman for his kind Caution, and hope, when he peruses my former Lucubrations, he will have no Reason to doubt but that I shall religiously adhere to it. A 2

Here is another Letter though not relative to the Matter im hand yet as it may be instructive to some, and amuzing to others, for the public Good I give it verbatim as follows:

SFR

I have many Grievanices to relate, but as I am not at all lequacious, and finding you to be a Child of Tacituraity, and one who loves to fay the most in the smallest Compass; I will give you it all in three Words.—I am married.

. Now I feek not to you for Redreft; well knowing that nothing but the cost Hand of Beath can give it .- But between you and me-I don't want to die-but to live quietly-My Wife wants neither the one nor the other-and what would be a Heaven of a Life to the appears a Hell of a one to her .-In truth we are opposite in all Things .- I approve of the plain Carli-date deligious in flaunting Finery. - I fove Silence the Noise-I love to think without speaking-fine to talk without thinking at all .- When I deliver a Sentiment, you would think that the Heavens had shut up all the Winds, except the Soft Whisper of the gentle Zephir; so small and so fiveet is my Voice. When the speaks you would think that Mell had got a Holiday, and all its Imps were yelling through a Speaking Trumpet-fo loud and fo shrill is her's .- 'Tis thue the has bless'd me with two fine Girls; but then I am curs'd with the Reflection that the is to have the training of them; and in the vocal Way I must needs confess that they take very much after their Mother, -- You will perhaps retort · here in Manner following-Why could I not perceive these Things before the Nuptial Tye? --- bir Robert this is the Cause of my Writing-I wish only to stand forth as a Warning to the Unwary-You are a married Man yourself, and therefore can belt judge of what follows. .

Women (I do aver from my own Experience) are not the the fame Creatures after Wedlock as they were before.—I thought my Wife before I wed him the most angelical Being in the World:—And the may possibly indeed have something Angelical about her now—I dare not deny it, as I have heard some young Officers of her Arquaintance affirm it.—But give leave to say this to my Sofrow :—Where the has a Disachm the Angel the has a Pound of the Devikin her. I say no more Fear site should liear of it,—I ammarried.

à 53

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YOU'D HENRY HENDOR'D.

P.S. If the following Lines which I wrote not without Occasion be acceptable; they are heartly at your Service.

When Balaam rode his humble As, And gave it many a bitter stroke, Because it onward dar'd not pass. How prettily the Creature spoke.

"Twas well he did not side his Wife, she'd ne'er have moke in Words to civil; But flung and bounc'd, and on my Life She'd kick'd Old Balaam to the Devil.

My next Piece which I mean to exhibit to Publick View, is not an Original, but a Copy of it fent me by a Particular Friend .-- Now, if you please to examine my Preface to this Species of Performance in the Year 1787, you will find a very curious Letter from a Mountebank Doctor to a Methodist Preacher, wherein he proposed an advantageous Coalition between them, with several curious Remarks, which (to use the Language of the Law) may there be feen, Reference thereto being had .- The Truth is (and as it is Truth it needs neither Logic nor Rhetoric to defend it) they had a Meeting; this Meeting produc'd Conversation, each Party back'd his Opinion with Argumentation, and as long as they spoke by Rotation, the last Speaker had always the better of it; but upon a fair Examination of the Pros and Cons it appeared that neither Side got the Victory, and therefore as is usual in such Cales, both Parties fung Te Deux .---- At the next Conference they were not so regular in their Attacks, but occasionally would either of them when they found themselves too closely attacked, fly off (as the Geometricians call it) in a Tangent from their Argument, and where as Navigators term it the Larboard failed them, they flew directly to the Starboard. - But at last-'Aftra regunt oinnia, say the Ancients; and I am very fond of Antiquity, which made meat my laft Marriage chuse a Woman Seven Years older than myfelf. - The Aggregate or Sum total (as the Arithmeticians call it) is this-While Hurlothrumbo was taking his last fire; the Parson ackowledged that all his Ammunition was exhaufted. - And in this Expression I hope you will allow that I not only profess the Arts and Sciences in civil Life, but that I likewise understand the Military .- The Conclusion of the Debate was that while Hurlothrumbo wa A 3 turnce

turned from his former Profession to a Methodist Preacher, he sonverted, the other from the Error of his ways to be a Quack Doctor.—They each instructed the other in their new Occupations; and with Letters of Recommendation on each Side they parted upon the most amiable Terms.—I have no surther to say in order to elucidate this Matter at present—But if the Society of Antiquarians should want some further knowledge of the Affair to transmit to suture Ages, let them give me a line Post-paid, and upon my Soul I will oblige them to the utmost; all I have to say further is, that Mr. Merriman would take his Chance with his Old Master in his new line of Business, and that the following is an Exact Copy of Hurlothrumbo's Letter after he had been admitted into the Sacred Function by taking an Oath or two before a Set of Country Justices.

My Dear Friend

Your kind Letters of Recommendation gain'd me a graceful Reception among the Saints.-You know the Necessity of having some good Hummers in every Class, without which even the Gifted themselves would often want that lifting up of the Soul which we fo strongly contend for .- My good Friend Merriman by close Attendance on the Ordinances, added to a diligent Study of Swift's mechanical Operations on the Spirit, has so far attained that necessary Grace, that to my unspeakable Satisfaction he is already become the Head Hummer in the Congregation.—I have the Consolation to find a continual Scene of Success attending my diligent and pious Labours; having this very Day prayed one Saint out of a Piece of Beef; and preached another out of a Pork pye, while my Dear Fellow Labourer Mr. Merriman sung an Old Woman as many Hymns as came to two Pounds of Saufages: fo that I may truly fay as good Dr. Whitfield does in his Journal, "This has been a Day of fat Things."-- To proceed .- In my first Preachment, I thought proper to store my Mind with Things drawn from my former Practice .- Accordingly I held forth Salvation Salve for fore wounded Sinners, and comfortable Juleps for the Poor in Spirit; a Divine Bolus for the broken Hearted, an Electuary of Grace to Salvation Seekers, and a Hellfire Blifter for the proud Pharisee. This with a Detail of the innumerable Cures that had been performed upon the Unfanclified, by my Spiritual and Soul fearthing Physic, lasted me a full Hour; during which Time my good Friend Merriman gave his Hums so properly, and was followed by the other Hummers so loud ad fo orderly, that the whole Assembly declared themselves ch edified; I received the Congratulations of the Brethren

who

who all defired me to tarry there, and abide with them for fome Time; to which I graciously complied . They wished me to take Care of my earthly Tabernacle, and take immediately fome of the good Things of this Life to refresh my exhausted Spirits after fo great a Fatigue-But of this I took no Notice; only observing that I was ready and willing to spend and be fpent at all Times .- Upon hearing of this, one of the Sikerhood took me to her House.-My next Discourse was upon Regeneration or the New Births not as it is shoken of by the Gownmen of the established Church; but as it is preached up by the Gifted of our Order. And here at one of my most pathetic Speeches, My good Friend Merriman clapping his Hands upon his Belly, and writhing his Body, pulled fuch an ugly Face, that a poor big bellied Woman fell immediately into Labour, and wasdelivered of a Male Child before I was delivered of my Discourse. Of this Accident I made a good Advantage, by telling my Audience, at my next holding fath, that the Child was regenerated in the Womb: this raised her a handsome Collection; of which at my first Visit I gave her as much as I could spare, and comforted her at the same time by telling her, that this Child was born a second Time before the was born the first; that I was the Spiritual Father of this Babe. and I make no Doubt but I shall be the natural Father of the next. My good Friend Merriman concluded my last Preachment with a Hymn of his own making, to the tune of " King Arthur bad a Pudding made, and he stuffed it full of Plumbs." and truly.

> Never a Hymn did go off better, So with this I conclude my Letter.

See Mr. Merriman's Hymnover the Leaf.

JA

	JANUARY hath xxxi Days. MO Decl.				
	Full Moon 11 Day it 5 - 56 M. Aft. 122° 57' 56 M. Aft. 1622 24 S. New Moon 26 Day it 6 - 21 M. Moon 1620 47				
d	26 18 31				
Ä	3	22		Circumeision.	Me. M.ERRIMAN'S
1	15	29	8	ori arth comi	and a Hymn.
ľ	#	24	T-	2 Sun. aft. Chr.	Now let us make the Echos ring
	5	25	M		With Voices loud and Rout's
	7	27		Epiphany.	Taudito Day
1	8	28	1	Lucian.	My piana Hymn you now thall figg,
	9	29		einge e state i	'And I will give it o.n.
,	10		1 — 1	in which are mini-	So now my dearest Friends, I traff
-	1,2	31	_	1 S. afti Bpiph.	You'll raite your Voices high,
	r3	'n	T	Hilary	As if you meant to suife the Grist
5	14	3	W	Oxford T. beg.	Camb. Term beg,
	15	4	T.		Of good Saleation Pre.
	16	5	F	O make Dane	And gainst our folid heavenly Fond
.,	18	7	D	O. twelfth Day, 28.af.EpConv.	Let not th' ungodly fplutter:
	19	8	М		Q. Char. b. d. kept Prifea.
,	20	9	T	Fabian	As Pancakes fry'd in Butter.
	2 i 2 2	10	T.	Agnes	Oh truft not to the Scarlet Whore,
	23	11	F	Vincent. Hilary T. beg.	For Popery's Perdition
	24	13	S	7	Sad Lies all Sugar-candied o'er With Treacle of Treadition.
1	25	14		36un, aft. Epip.	Convers. St. Paul
	26	15	M		to by do noted to be if
	27 28	16	T W	Day It. ends at 6h. 23 M. After.	
-	20	18	T	o 25 Ma. Alter.	Nor of the Gownmen Matter make, They differ from us widely;
	30		3.5	K. Cha. I. Mart	If they in writing Pains do take,
	31	20			They presented of corner of the before
			-		

Nº 427.	Poor Robin.	· 9
	ervations in January.	M Clock D bef. O
Pile the Fire. And while th	naw Wings so roat; and bar the Door; e Elements do quarrel Buftle, our a the Barrel.	6 6 38 1 41 41 6 6 28 21 11 50
D. ristof. ri.&	al alexander of the second of	26 13 101
95 3058 106 2657 11 Drifes 56 125 24255 137 854 4 148 3152 159 5351 6 1611 1350 16 17 Morn 49 1	in this I Syntax golog to tree which I my ben right glad to cally cleared up. If you will give the Devil. Trouble to look of the Following was will find the put the following the following from the Body, wanether in a feparaifiquee, Naw regits for, although your. Breeches, and you ticouts, yet it is so this is not possible for me at dred Miles Listan dred Miles Listan I take in Fu. Sex it is that at the term of the property of the sex it is that at the control of the property of the sex it is that at the control of the property of the propert	tat upda a Sub- leff should bark have fined logi- s yourfelves the into my ferious Sestessuher laft, at Mrs. Guiffin Queese, viz. when departed quild know one the State of Est y/Siz orthin wear: ur Ledythin Pett you know inal perhaps shua- de to tell which is yezy-jdentical is yezy-jdentical is yezy-jdentical is yezy-jdentical
202 5545 1	at 27 Minutes part 124 minutes part sur Lucubrations, But this has	Five, is reading
23 5 - 38 40 20	Jo. But Argument upon Pillow; when my 28 NedSharp closed her Legs, a	my Midnight deart Lady has adgone to fleep.
256 48 37 2	thus; I have an in thus; I have an in the Names am certain of it. I keep growing to a know no and then declines.	nmortal Soul, I Every Thing elfe cettain Degree, But the Soul or
29 8 21 31 20 30 9 25 29 3 31 10 32 28 32	trung wrote ing on fresh Suppli	when the Body fill keeps fraw- ies tilk the Lamp

The second secon			
FEBRUARY hath xxviii Days. MODec.			
First Quarter 3) 6 Hours, 25 M. Morn. 1 16 52			
Full Moon 10 (Day	4 8 M. Morn. 6 15 22		
Last Quarter 16 (at)	10 1 M. Aftern: 11 13 46		
New Moon 25	1: 14 M. Morn. 16 12 3		
C enters # 18 Day, at 3 Ho. 28 M. Morn. 21 10 16 8 25			
1 21 D & S. aft. Epiph.	1		
alan Maran James Days	Parification		
2 22 Ma Candlemas Day	But let them with their Learning go,		
3 23 T Blase			
4 24 W	And make a mighty Fuls		
5 25 T Agatha	We boaft no learned Skil-Oh no!		
6 20 F	That's not the Case with us.		
7 27 8			
1 /15/1 35	Learning we've none; yet we are bold;		
8 28 R Septuages. Sun.	Nor Livings have we fat:		
9 29 M	Thus the Apostles were of old:		
10 30 1	So we're like them in that.		
1131 W	oo we te time them th that.		
12 Fc T Hil. T. ends.	That Paul his Arms were firetched out		
13 2 F Old Candlemas			
10 100	In Scripture you will fee ;		
1 J. 1	Look in the Acts, or thereabout,		
15 4D Sexages. Sund. 16 5 M Day in.2h.14m.	The same likewise do we.		
I I Slovika Sali i i	We Consend Water Acres 1 78. 11		
	We fo extend Voice, Arms, and Head;		
1 1 1 1 1	You'd think if you was out;		
19 8 T	The Devil in a Brimftone Bed,		
20 9 R	Lay roaring of the Gout.		
21 10 8	26 Sec. 10 Sept. 124 1		
22 11 D Shrove Sunday	Quinquagefima		
2312 M	Samdragennia		
1-31-1	Pr. Adol F hom Chem To		
	Pr. Adol. F. born. Shrove Tu.		
25 4 WAsh Wednesd.	To show Religion's not a Farce,		
26 15 1	Must Persecution back here		
[18m.]	'Twas but last Night pin'd to my A-e,		
28 1 - S Day li.ends 7 h.	Went bounce, bounce, baunce,		
	Cracker.		

Observations in February: M Clock D hef. ©			
Two Days of Note this present Year, 614 34 In this short Month do both appear; 71 14 39 Which every Maid and every Man takes 76 14 25 For Valentines and eating Pancakes. 21 13 54			
2 morn. 24 36 8 Perhapsthey has put into 30 49 23 37 9 my Betters, 4 1 56 21 39 14 And fo I've delight out them in 64 4 17 43 12 red Letters, 12 letters, 13 15 39 14 46 14 17 43 18 5 21 16 D rif. 10 D rif. 10 50 F Dick Rice 11 7 A 18 8 52 17 Nimming 12 8 43 6 54 18 Ned. 13 10 4 56 19 16 Ned. 13 10 4 56 19 16 O 3871 V 22 How beat 13 10 4 56 19 16 O 3871 V 22 How beat 14 57 3 23 how faver that we are how faver that 15 10 26 how faver that 16 12 14 49 49 11 27 15 how faver that 16 12 14 49 49 11 27 15 how faver we find all behaves 19 3 34 53 7 25 When Mary heard that we are been call Actident, where we find 17 14 5 15 20 16 how faver that 18 18 18 19 26 how faver that 19 26 how faver what 18 18 19 26 how faver that 18 18 18 18 18 18 18 18 18 18 18 18 18	hat the great Addison the Mouth of Cato rue. is a Cod, he must t in Virtue."		

March hath xxxi Days		
First Quarter the 4 To Hour, 51 M. Night 1 7 Full Moon the 11 Day 1 - 50 M. Aft. 6 5 Last Quarer the 18 at 2 - 15 M. Aft. 21 3 New Moon the 26 6 - 46 M. Aft. 46 1 O enters \(\text{O} \) 20 Day, 2 Ho. 52 Min. Morn.		
2 19 M Chad 3 20 T 4 2 1 W Ember Week	David Come you who've whet'd, and you who've rak'd;	
5 22 T 6 23 F 7 24 8 Perpetua 8 25 D z Sun. in Lent.	Come Turks 37	
11 28 W Sat. 46. 6 h. 9m. 12 M T Gragory [morn.	Rogues, come Whores, Of every Teibe and Mation. Come all invited, all delighted, And make no Entheration.	
17 6 T St. Patrick	Morality is poor lean Meat, And gives you no Relief, to But come to us, and we will treat.	
18 7 W Ed. K. W. Sax. 19 8 T 20 9 F 21 10 S Repedict 22 11 D Midlent Sund.	Mith right good Gosph, Beef. To other Faiths, we all apply A Hell subotas Musicad s Then come to us my, Friends and buy	
23 12 M	Will you not try; and come and buy! Why then, in Faith and Toub.	
27 16 1F 28 1 - S 29 8 D 5 Sun. in Lent 3c 19 M 31 20 T	You all may go to Hell below, And drink Damestion Broth.	

Observations in MARCH. M Clock D bef. G			
Makeh Beer's despis'd I think by few, 114 33 So brew and drink; and drink and brew; 1210. 6 For which you have this solid Reason, 211 7 10 26 5 24			
1 10a.39 vi. v. 5	Men of the most solid Wistom those in whose Company Compented		
lectures out	HIGHLED. WHOLE WAS WELL MARKS OF		
3 1806 H . 30 30 7 2 1 2 3 1	Pleasantness, and all their Pathel		
40 54 28 727 0 5 m must in	were made in Search of Truth il		
I TI E 2 120 2 AT O Digit Rate II	inali i at my departing Hour neveri		
	hope to fee them more, and well- come them again to the Manfron		
1 / U J J J J J Pos Chas mass	of eternal Felicity; do the dezieft		
Thirties worth	R LIGHOR INCCLODIA LOTHER L'I WUG DELL		
94 42 1 8 42 3 last the Year	mere never to meet hereafter! Cer:		
Itals 17116 Adildians	tainly, No Yes, ye shades of my		
11 (rife Y4 46 P	departed Friends, we first meet a-		
127A.39112 4816	each other; I am confrieus of it		
139 010 5017	Thus have I reasoned with myself		
14 10 19 8 52 18 james Jug	len ale detaile and a contract of the		
1511 33 6 54 79 Martha	pener mana i nave reasonce in twis		
16 morn. 4 56 20 Mug.	Manner; why should I wish Ped-		
170 38 2 58 21 19108	ple to know one another after shey have departed hence? When per-		
مستنسنية أمواون أمم وافرا	haps the very first I shall meet may		
19 2 16 58 2 23	be the Ghoft of a Dun, upbraiding		
202 7 56 424 Theagth of	one with an unpaid Debti		
21 3 26 74 6 25 March the			
Lilly Till olaziya	Affair on both Sides, and never		
234 13 50 H C To Lahdlords	If c come to a man president		
244 34 48 12 28 Lady-day;	right glad was I when Syntax took		
254 "52 46 14 25 Waich 1	up the Argument logically, and was going regularly forwards according		
Jacken Tone Law of N. Jong Wilner	to the Elements of that Science at		
22 - Wolvie Tank a for by fome	it was written in French by Peter		
Individual to the or	du Moulin, and translated by Natha-		
	viel Delawne, Batchelor of Aris in		
1 7 July 1 June comm	CAMBRIDGE, and printed by Ni- tholas Bourne at the Royal Exthange		
120120 24120 25 31	London. A. D. 1624.		
3 thr. 56 34 20 0	The state of the s		

		h xxx Days. MoDec
	Laft Quarter 17 at New Moon 25	North. 1 4 49 11 8 34 15 16 16 17 18 34 17 18 34 18 34 18 34 18 34 18 34 36 36 36 36 36 36 36
1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	9 29 T Maundy Thurs 10 30 F 11 31 S 12 ap D Easter Day 13 3 T Easter Monday 14 3 T Easter Tuesday 15 4 W 16 5 T 17 6 F Da. 13h. 58m.lo. 18 7 S 19 8 D Low Sunday 10 T [beg. 2 11 W Oxf. & Camb. T. 3 12 T St. George 14 S St. Mark 2 Sun. aft. Easter 16 M 17 T 18 W Easter. Ter. beg.	Maxims or ferious Reflections addressed to his Readers by POOR ROBIN. Cam. Term ends Oxf. Term ends Otf. Term ends Old Lady Day The Fools who vainly do suppose That true Content, stom Riches flows, Will think it wrong, if once they try, And so think I. When I my Betters humbly greet As proudly passing through the Street, If they'll not speak, I'll not neply, So what care I.

May hath xx	xi Days. MO Dect.
Full Moon the 9 Laft Quarter the 17 New Moon the 124 First Quarter the 31 O enters II 20 Day, 26	3 Hours 2 M. Aft. 115 17 9 — 22 M. Morn. 616 43 1 — 44 M. Morn. 1118 3 10 — 20 M. Night 1619 15 7 — 44 M. Aft. 2120 19 15 H. 13 M. Aft. 2621 15
4 23 M 5 24 T 6 25 W John, B.A.P.L. 7 26 T Sat.r.2h-51m.m.	Continued Invention of the Crofs Should Fortune, ever ficiale, frown, On every Stage, and lacep me down; If I can't rife; yet I can lie, So what heed I.
827 F Jup.fe.47m. mo. 928 8 Da.inc.7h.32m. 1029 D 4 Sun.aft.Easter 1130 M 7 Old May day 13 2 W 14 3 T 15 4 F	meet; That's rought to me, fix Stories high, So what mind I. At Poverty why should I feet,
16 5 S 17 6 D Rogation Sun. 18 7 M Da.15h 42m.lo. 19 8 T Q. Charlotte be 20 9 W 21 10 T Ascension.	Dunftan.
22 11 F Prs. Eliz. born. 23 12 S 24 13 D Sun. aft. Afcen 25 14 M Eaffer T. ends. 26 15 T Augustin Abp. 27 16 W Venerable Bede 28 17 T Oxford T. ends.	As all must die, or foon, or late; When Folks are gone why should we cry; She's dead;—not I. Did She (Dear Creature,) louthing Lite.
29 18 F K. Cha. II. Reft. 30 19 S No ni. to July 22 31 20 D Whit-Sunday	

Obletvations in May 1	789. M Clock
Now Namphs and Swains are tripping To tutal mulic on the green; While chipped nge on crotches wadding Can idarcely keep its legs from traulin	11 3 .57 16 3 .59 21 3 46 8
5 2 17 29 31 11 Now the 6 2 17 29 33 1 2 girls with 7 3 7 25 35 1 3 beauteous 8 3 37 24 36 J 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Trigon feeing Syntax is a fair way for beginning, turned, it off by observing, that all pretensions of searching into thirgs teyond our present conceptions are vain; and in the matter before us there was not in his opinion sufficient data to ground an argument upon. Mrs: Griffin who had two or three hard words rotting in her head, and wanting to get that of them, observed, that as we fartisely are a compus measure of soul and fairer, that is to say, Christianity are a compus measure of soul and fairer, that is to say, Christianity and Carnality, such subjects pleased her muchly; bet; continued the, different people have different impositions. The dispositions of different people age certainly various, resolided Syntax.—Nay even the same terson at different times has diff.
20 I 50 6 54 26 delighting 21 2 1 1 5 55 27 Age with 22 2 36 3 57 28 all its cares d 23 3 4 2 58 29 and pains 24 D fets. I 59 N Sees with 25 8 2 5 7 I VIII 2 (furprize 3) those beau. 27 10 23 57 3 4 teous eyes, 28 10 59 56 4 5 and wishes 29 11 20 55 5 6 6 1	erent dispositions. That is not the case with me, aid Sancho, catching up the tan- card; I am always dispose, for rinking. Now, Madam, says Syntax, so Ovid elegantly sings, in nova fert animus mutatas icere formas. Mrs. Griffia seemed much edicad. Notwithstanding (continued intax) my friend Trigon's sefections of not having sufficient

í8	Poor R	dbin. 1789
Jun	t hath xxx Days.	P. R. 1789. M O Dec.
Full m Laft Q New r First Q	unrter 15 (Day) 7	hour 17 min. Aft. 5 min. Morn. 16 23 2 21 25 25 25 25 26 22 26 22 26 22 26 22 26 22 26 22 26 22 27 27 27 27 27 27 27 27 27 27 27 27
- 4 2 2	M Whit. Monday	Nicomede 25 23 2
3 23	Tu Whit. Tuelday	
3 23	W Ember Weck Th K. Gee. III born	CONTINUED. To that receptacle the grave;
5 25	Pr. Ern. Aug. bo	rd Boniface
6 26	1	The rich, the poor, the prince, the
7 27 8 28	D Trinity Sunday	For refuge from their troubles for
9 29	Tu	Then why may'n't I.
10 30	W Oxf. Term beins The St. Barnahas	Cornus Chaidi
11 31		Corpus Christi. s And if I can (when pallid death
13 2	S	Resentless flops my lateft breath, But fteer my course above the fky
14 3	D r Sun aft. Trin.	Then well feer'd I.
15 4 16 5	Pu .	
1 400 1 44 4 4	W St. Alban	The moral to this fine reflection,
10 8	Th	We just by way of interjection, Most humbly hope, you'll be
19 8	S Trans.Edw.K.W.	KING out
21 10	2 Sun, aft. Trin.	Longest Day.
22 11	Lat.	Te smooth the road that leads the
24 13	W Nat. St. J. Bapt.	Midfummer.
75 14	III	1 1 make the pallage free from first
26 15	F	Or fear, or grief, on rage; You'll quickly fee was our intent
28 17	D 3 Sun. aft. Trin:	The reft. you'll find was only mean Just to eke out a page.
29 18	M St. Peter	A second full of
30 19"	1 • 1	

Observations in June.	M D	aft. Sun
Reader lee Middimmur flip by, And then if you've a mindro try How highly man will over man lord, Go pentyles as he your landlord.	1 6 11 16 21 26	2 32 1 43 0 46 bef. 1 20 2 25
1 0 m21 11 VIII 9 Or sour data where on to	gró	und an ar-
2 0 4651 9 10 small beer gument. I don'	t in	the leaf
3 I 1051 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Dt.	s leo on
The state of the s	gica	heads.
NAME AND ASSESSED TO THE GRAIT CAN		
7 Drifes 10 - E Criffin.	pu (El	tem _a faid
8 8 2 4 1 1 think a good	calv	e's head is
O O 20 47	t Tog	ether, faid
OIO 2 46 14 18 moverions I define frid	Mrs	Oriffin,
110 2946 14 19 The hitching her cha	ir r	earer the
area 152 guality be table, that Mr. S	yota	x may go
Trigon now gay	ail i	ap for loft.
	ight	d each a
in brewing So parting him 616	int	riumphed.
The Date of a modern	dif	putant.—I
18 10 1 213 12 1 15 20 maxim		
18 01: 343 17 26 maxim gical head, wiz, the which we defire to		
10 1 39 48: 17 28 If you'd Drink first, fald	Ġrif	ña.
21 2 votar out the		
14 100 500 45 1 17 10 Your hule Rload and Thursd		
17 N bands lives. mercy upon us.	Wha	t a creck.
24 8 a 5 4 4 2 11 12 7 2 — Who's kill'd.— Where was it.—	Wh	at was it.
Ob the tumble do		
of Jericha The co	afh c	of Dagon's
10 45 44 16 6 Marplot, 21 nothing to it.	inti	the yard.
where the luckily	fall	into the
_ "\\" ']	•	

20	Poor		1709
	July hath xxxi Da	ys.	M O Deci. D North.
New A	of the first of th	ours 31 min. Morn. 21 min. Morn. 1 min. After. 20 min. Morn. 44 m. afte	1 23 . 5 6 22 . 39 11 22 3 16 21 17 20 22 26 19 19
1 20 2 21 3 22 4 23	W Trin. T. ends Th Vist. of B. V. M. F Dog days begin S Trans. St. Martin	Ignorum tibi nolito Cognita judicio con ta nafu. Old Midfumm	nstant, incogni-
4 23 5 24 6 25 7 26 8 27	D A Son, aft, Trin M To Thos, a Becket	Serene the fky; the And folded were the Unclouded o'er the The filver moon did	e sheep ; eastern hill,
9 28 10 29 11 30	Th Day dec. 16 min. F Cam. T. ends S D 5 Sun aft Trin	Their labout o'er; a Just at the close of c Strephon and Dan fwains	across the plains
13 2 14 3 15 4 16 5	M Oxford A&. To W Swithin Th	Together took their From youder hall, the Of violin and flute: And now the choru	hey hear the found
17 6 18 7 19 8	S Oxf. Term ends D 6 Sun. aft. Trin. M Margaret	And warbles now the But where the finer Ah, what avails the To fouls untun'd, a	feling fails,
21 10 22 11 23 12 24 13	Tu W Magdalen Th Sat. rif. 9h. 52m. aft	The voice of melod	the joyful long,
25 14 26 15 27 16 28 17	M	St. Anne To Strephon thus b	e foke.
10 19 11 20	W Daylight end at F 10 h. 46 m	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 8, C. C

14	12/	end name							
,		Observations in July: M Clock D bef. ©							
F	Now la Before t Up in t To take	12 16 16 21 26	3 25 4 18 5 2 5 3 5 5 6 3						
1	morn	III VII	t 9	Tom Tram	arms of good Mr.l				
2	1 .	1-2	10	1	been administering	carı	al comfort		
3	•	47 13		Ludiow.	to a holy fifter: San	cho	who had but		
4		47 13	12		just fully lighted is overfight, a certain	us pi nart	of his low-		
		48 12	13		er garments unbu				
5	1	49 11	-	This is the	prize and the fud	lden .	ftart made		
7	2.2	49 11	F	eafon of the	him empty the fire	out	of his pipe		
8	8 a 25			l	into his garment t	nus (ben tot ital		
9		51 9	17	wains do .o	ftradling, and fhat				
10	9 12		18	the means	round the room	As t	o poor Tri-		
11	-	53 7	19	A	gon, being unhapp the wall, the cha				
12	9 50	54 6	20	the hay may	eil backward; an				
13	10 11	55 5	21	loon be led,	bing a lump which				
14	10 31	56 4	22		upon the back of				
15	10 . 55	57 3	23	the letter	poor Syntax, just time, when in spi				
16		58 2		P 1	he had begun to di				
17	11 58	59 1	2 5	,	abilities; - upon	my	foul 'twas		
18	morn	IV VII	26		hard-for just as	he h	ad got the		
19	0 42	2 58	27	1	tankard to his me was made; his wa				
20	1 36	3 57	28	Hewlon	button'd, and the				
2 I	Z 42	4 56	29	Ludlow,	full; he, starting, t	cam e	d the liquor		
22) lets	, ,	N	Dun	down his bosom;	drop'	d the tan-		
23	7 a 54	7 53	2		kard upon the gro now wringing his				
24	8 22	8 52	3				inly exect-		
25	8 48	_	4	,	fively vexatious; b	ut w	hat made it		
26	9 11	11 .59	5		more fo, was, that				
27	9 37	12 48	- 0		fright, his definitio argumentations, ´a				
28	10 6	14 46	8	I'll go to	categorical and h	/potb	etical, his		
29	-	15 45		bed, and fo	dilemmas and his	fyll	ogiims, in		
30		17 43	9	good .night.	• • • •	,	. : :		
31	morn	18 42	10				· · · · · · · · · · · · · · · · · · ·		

:		1/09						
1	August hath xxxi Days. M O. Dec. North.							
Full Mo Laft Qua New M First Qu O en	urter 14 Day 2 2	18 Min. Night 1 17 53 6 16 33 18 Min. Might 11 15 6 16 33 Min. Aft. 21 11 55 16 19 12 11 15 15 16 19 12 11 15 15 16 19 12 11 15 16 19 12 11 15 15 16 19 12 12 11 15 15 16 19 12 12 11 15 15 16 19 12 12 11 15 15 16 19 12 12 11 15 15 16 19 12 12 12 12 12 12 12 12 12 12 12 12 12						
	d Jammas day	Oh Strephon when I fee thele things,						
I 21	S Lammas day	Then in my breaft pale envy springs,						
2 22	D & Sun. aft. Trin.	And robs me of my reft;						
3 23	M Jup. 111, 4h. 17m.							
4 34	Ta morn.	On these, I think how surft am I,						
5 25	, , ,	And thefe, alas, how bieff.						
1 2 .	Th Transfiguration	Could you not with with all your heart						
7 .27	P. Prs. Amelia born	Name of Jefus Todina as well and look as imart						
8 28	S,	As these fine folks do here;						
9 29	D & Sun. aft. Frin.	To have a half as big as this,						
10 30	M St. Lawrence							
31	TuPrs. Brunf. born	Dog days end						
z Aug.		Old Lammas day Where every convenience is;						
13 - 3	The Standard of	And the liber serves as a						
14 3	F Twillends 9h. 461	0.7						
15 4	S Affumption	Your cellars flor'd with richest wine						
1 5	D to Sun. aft. Trin.	Duke of York born Your fizhles flock'd, your garden						
17 6	M	l c.,						
18 7	Tu D. breaks 2h. 221	Delightful to your view ;						
19 8	W	Your erebards filled to your with,						
20 9	Th	Your park with deer, your ponds with						
21 10	F Pr. W. Henry box	And all to pleasure you.						
22 11	S							
23 12	D it Sun. aft. Trin							
24 13	M St. Bartholomew	When tenants round bring in the						
25 14	T	For which they've labour'd hard;						
26 15	W	tand maken were of their lotter here						
27 16	Th Day breaks 2h, 53	Then would you turn a carplels ear,						
28 17	F St. Augustine	Without the least regard.						
29 18	S St. John Baptist be							
30 19	D 12 Sun.aft. Trin.	The state of the state of the						
21 20	M	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						

Let fage advice be not forgot inc		Observations in August. M. Clock									
Let fage advice be not forgot with the finding of prink in fmall beer when you are hoth in the finding of prink what you like; but delake the frong. I om 2 IV VII II Proferpine: Barbara Celarent, &c. according to the ruke; in Arikotle; tegether with his fixteen logical heads, as they find in the Elements of Logic written in Erdach by Reserving Moulem and in the Elements of Logic written in the Rements of the Moulem and Inkin			عرب	A A W LIOIN	3 111 170	PO31.	D	be. 💿			
Let fage advice be not forgot with the finding of prink in fmall beer when you are hoth in the finding of prink what you like; but delake the frong. I om 2 IV VII II Proferpine: Barbara Celarent, &c. according to the ruke; in Arikotle; tegether with his fixteen logical heads, as they find in the Elements of Logic written in Erdach by Reserving Moulem and in the Elements of Logic written in the Rements of the Moulem and Inkin								E 62			
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25	ı	56	2	58	7	me as a .	produced; the bi	oken	Dipes were	
	10	57	4	56	8	laint,	fwept under the	heart	h, the par-	
27		orn.	6	54		With bend-	lour looked as we	. G	perore, only	
28		J. I.	8	54 ζ2		ed leg I humbly	now we are a little	e rec	overed from	
29	-	~	10	5° 50		beg.				
30		. 12	12	48					'	
130	1	- 12	1 2	40	. 2					
<u>'</u>									<u>!</u>	

20 -				, -,					
	OCTOBER hath xxxi Days.								
Full M Laft Q New I Fire Q	narter 12 Day I	rs 5 min. Morn. 37 min. Morn. 19 min. Aft. 8 min. Aft. 4 min. Night	1 6 11 16 81,	3 27 5 33 7. 27 9 9 10 57 12 42					
1 20 2 21 3 22	Th Remigine F Sat. fets 4h. 13m. S morn. D 17 San. aft. Trin.	Then tell me, Street hard That we should toil And drag a life of Thro' Summer's he	withou pain;						
\$ 24 6 25 7 26	M To Faith W D. break 4h. 31 m	cold, To reap the fruit, or While others get t	torn t he gain	he mold,					
8 27 9 28 10 29	Th. F St. Denys S On and C. T. beg D 18 Sun. aft. Trin.	While they unbeedfu The joyful night, th Old Michaelr And ipend their h	c livelo nas D appy h	ay.					
12 Oct. 13 2 14 3	M Tu Tranf. of K, Ed W Th	In eating, drinking, ing, Dancing, playing, la While toil and ca	ghing	joking,					
15 4 17 6 18 7	F S Etheldred D 19 Sun. aft. Trin:	Twould almost ten mind St. Luke To call ev'n Provide							
19 8 20 9 21 10 22 11	Tu W Th	When we fuch di Oh Strephon; what he Who cap this might Without an envio	y diff's	ibat mag					
23 12 24 13 25 14 26 15	F S D so Sun. aft. Trin. M K. Geo. III. proct.	K. Geo. III. ac.		rifpin:					
27 16 28 17 29 18 30 19	Tu W St. Simon and Jude Th	By Heaven Mign'd, cafe; Nor know! but I in (Tho' not to rich)	L'envy	norcheir l age may,					
31 20	: s1	they.							

	Observations in October. M Clock D aft.Sun.									
	Now take advice that's good and Tober, Strong ale to brew this month Officher. My scheme is good you may depend on't, If not,—I iye,—so there's an end on't.									
1	3	m 17	will,	Farch; into						
2	4.		16.	44		well, I faid	the caute of all th	¥s_la∈	quiviter.	
3	_5		18"			at firft,	Our hoff Griff	in.	you may all	
4		rifes				Writing	along have observ	red, :	was (ciribly	
5	. <u>5</u>	a 53	, ,	. 38	17	this part!	afraid of being tor			
		23	٠٠ خ ١			may I be,	himself expressed			
7	6	, 55	20	34	19	curft,	fixteen logical he			
	7	. 36	١,	32			at all events to pu	ta sto	p to it, when	
9	′8	•	29	31		Old Noll,	he faid, have a li			
OF	9	. 2]	31	29		Tyburn's	he flood facing th			
11		29		27		glory.	back to the con			
12	11		35	25		20 4311 01	pretence of pulli	ng th	e fire toge-	
13		MIN	37	23	25	all such	gether, he conve			
14	0	59		21		moniciae:	any, a blown bla of it, and cover			
15	. 2		4.1	. 19	27	Dote"	afhes; as the blad	de# 4	rarmed, the	
16	3	•	43	17.		But take what others	air expanding, bu	rft it	with a loud	
17	5		45	15	29 N	wrote be-	report, which an			
I.B		fets	47.	13		fore.	whole company is at the same time			
10		a 29	49	11	2		fixteen logical bea			
ZO	1 -	· 10	10	9	3	Sami fori	no more of Peter	du l	Moulin, Na-	
2,1	1	. J-	53	7	4	Grongs.	thaniel Delawne,			
22			55	5	. 5	Black Bols,	Bourne at the Roy		echange, du-	
23	1		56	4	"	Frowly	ting the anole m	Rmr.	-	
44	4.7	,	58	. 2	7	Moll,	I wished here to			
25		0	1, 54	IV			good Mr. Marte	xt, ş	s we have	
26		iorn	.3	58	٤٠	I wrote to,	him in the house	, and	the former	
27))	1 8	50	1	I thought	Conversation quit it must not yet be	: DO	indeed is it	
25				54	۱: ۱	ío.	proper to bring in	a fre	personage	
	1.	20	ĿΞ.	52		3. 1	1			
30		20	9	51				• .		
131	_ 1			49	14					

20	POOFW	OBHI -	47.09
ी जीवता सम्बद्धाः	November hath xx	x Days.	O Deci South.
New I	ion 3 Day 10 hours uniter 10 Day 10 loon 17 at 3 latter 24 3 Denters # 21 day at 7 hour 3	42 min Morn.	6 13 7 38 8 56
2 27 2 22 3 23 4 24	M Pr. Edw. born Tu Prs. Sopnia born W Jup.r. 1h. 8m. mor.	All Saints All fouls Content with what I have, t my flore, If I've enough why should	ko' imali
5 25 6 26 7 27 8 28	F Leonard 5 D. Cumb. born 22 Sun. aft. Trin.	Mich. Term begi more; Prs. Aug. Sop. be	orn
9 29 10 30 11 31 2 No	W St. Martin	And which would you the he tion call, Fre in a cot, or 'ervice in a While luxury lays in a flock 'Tie exercife invigorates th	hall? of pain,
13 ° 3 14 ° 3	F Britius S Day dee. 7h. 43m. D 23 Sun. aft. Trin.	Though coarie my be my wholesome quite, Machutus And hones labour gives me	food, Tit
16 5 17 6 18 7 19 8		Can bede of down procure reft? Where pain or fears torn troubled breaft,	a night of ment the
20 9 21 10 22 11	S. D. 4 Sun. aft. Trin.	The villager (his daily labo Will fleep embrace, tho' even Cerilia Old Marti What the no fervants sound	on a floor nmas d.
23 I2 24 I3 25 I4 26 I5	Tu Jap. r. 1 h. om. aft.	fion wait, Poverty needs no porter at t Let useless riches wait on pride,	he gate. pamper'd
27 16 18 17 29 18	S Mich. Term ends D Advent Sunday	All natures wants are quickly is there nought else but we care beguile? Yes: yonder see mylovelyPh	ealth can

\$4 1EU	I GOT APPOINT	414
Observ		Clock aft, Sun.
		16 .13
In the fifth	of November most people delight, coafted Pope in a mighty fine fight.	
This day if	ke true Britons we all claim a fhare in	, , ,
Some to dri	ink and huzza; fome to pray, or to fwear in. 2	
	20	
1 5 m30		ce is 10 near
2) rifes		ou nave not
- 0	40 17 west them languages and suich him	
4 5 38	18 42 18 through,	
		buly in the
	22 38 20 thought I back parlous, admir 24 36 21 for fome-	Mrs. Grif-
/1	in, over a buttle of	
	25 35 22 thing new, dy.	
to morn	29 31 24 mon Ma- However, I have	FOR THE COMP.
:	20 40 2 mins. Dany joyous again,	and the tan-
	32 28 26 rebur kard goes merrily rot	nd.
-1 .	33 27 27 radly, Come, says Griff	a clannina
	35 25 28 Tom bis hand upon Sanch	o's foulder,
	37. 23 29 Thumb. Sive us a firing of pr	verbs.
	30 . 82 90 manufact	a Garra Grid
ry D fots	40 BOIN But this was Sancho, but they are	all flows.
18 5 a 34	21 10 2	
19 0 33	18 3 that was Flown, whither	
1 2	44 10 4iAnd much	id Sanchor
_	they are flow	vn after the
.	48 12 7 right	•
23 40 55	So hurling la con-	in céder en
24 moru	them upon the strike if it be	
	y ine mell, will read you the of !	n u's srolls,
	which he delighte,	
	ed 612 and wrote after	tris Mooden
	55 5 13 myfelf,	
	168 - 12 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
· · ·	7 T.T.	······································

٩	3 () () ()	De	CEMBER hath xx	xi Days.	M	O Decl.
1	Fell M	0019	2) C4ho	urs 39 Min. Aft.	1	21 56
	Last Q	_	r 9 (Day) 🚱	17 Min. Aft.	6.	24. 36
	New ·			49 Min. Aft.	11:	23 5
,	ina Q	hatte	1 24 3	rr Min. Aft.	26.	23 22
ľ		, en	ters Vf 21 day at 7 ts, 59	tti. Mornie	21. 26	23 27
ĪĪ	, ZQ	Tu		Waiting to meet her		
2	1	w	h fets oh.am.morn.	door.		1 for more !
3	1		Jup. r. 10h.24m. af.	And bless'd with her	CAD I	nortal with
	1	P	,	Happy the man with	-ćoal	and Eandle
.4	1	Ś		''' bleft:		Ywest.
5	24		a Charles Adman	He dreade not Phobu	k fish	king in the
.6		.4.	2 Sun. in Advent	Nicholas :	: ,.	١ ۾ ي
7	: 26	- Diffe	D. break 5h. 57m.	But lights his candle	e up.	and mends
-8			Conception of V.M.	his fire,	_	ا د د ه
9	28		Day dec. 8h. 42m.	And willingly he let	the	god retire.
10	29	ТЪ		Happy the man blefs	d wi	th a cellar
11	30	F		ftor'd		(afford)
12	Dec.	S		With the rich juice	be VI	ntage docs
13	2	D	3 Sun. in Advent	And fludies only how i For greater flocks of	PAR O INC	Ec 18-Miller
14	3	M	Twil. ends 6h. 1m.	cyder.	Post	A CAL
15	4	$T_{\mathbf{u}}$		Happy is he who joy	oli‡	can boat
16		w	O supientia Em.W.	His paptry large, and	all 64	with bon's
- 1	5		Oxford Term ends	and count: 7	- je 3.	- i (io)
17	- 1			While a full loaded to	bles	apie with
18	7 8	S	Day 7h. 44m. long	Seta to his view or fle@		
19				Yet bles'd with the	, wi	thout con-
20	9		4 Sun. in Advent	tent and health	ون	(wealth;
21	10		St. Thomas	Shortest day	2.2	2.
22	11	Τa		Ill fares the wretch a	mid	t abundant
23	12	W		And what avails great or mest?	E REOF	- 1 1
24	13		D. break 6h. 1m.	To him who dare not	drink	Lage I
25	14	F	Christmas day	Say, where's the plot	6	form man
26	15	8	St. Stephen	to talk on,	age,	TOT. ST. THEN
27	16	D	St. John	Sunday after C	H	mae
28	17		Holy Innecents	Those lands, the go	ut f	orbids abe
29	18		Twil ends 6h om	wretch to walk o	on s c	E 104
- 1		ŵ		Or white in the joy wh	ole d	aysão tend
30	19	• • •	Silvefter	O'er heapt of gold, cl	ais) je	yful keirs
111	****		V	find [pend?	غد	<u>0 111</u>

Observations in	DECEMBER	R. 1789. M Clock aft. Sun.
The man who has no The Lord Almighty ! Has final! Accasion to That Christmas feati	nelp his head, if remember ing's in Decembe	r. 21 1 8
I 6m·26 VII IV	15 Ye encient	Why, faid Sancho, has he left
2 D rifes 58 2	authors of	any behind him?
6-2	Poer Ros	Undoubtedly, fand Trigon: 1
1-31 2" 1 STRITT "TT	LB As G-	would do him no good to have ta-
1 11 21 21 22	10 maistean	ken them along with him. Yes,
1 2 1 2 1	and men	there are three tragedies. vis. Jane
		Spore, Fair Rolamond, and the
7 9 44 3 57	21 bins,	Bahes in the wood, Ja the Comit
8 11 1 3 57		line there is Punch turned Pilgrim, or the Pilgrim's Progress, the Dra-
	23 think no	gon of Wantley, and the delight-
	4.5 you.	ful play of Punch's Transforma-
11 37 5 55	B'caule chis	tion, which I have now in my
112 42 531 9 54	Pacyear I've	pocket: so pulling a book out of
1°3(T)	274done with-	his waiftcoat pocket, here it is,
14 5 24 7 53		faid he.
1c 6 33 7 5	my triends	Bight glad was Griffin, and the
16) fets 7 . 5	of this bo	company all expediation. Trigon
17 5 4 0 8 - 5	Z 's more,	began, as he opened the book, with
	2 3 And very	Ad the Pirk, scene the Firk.
19 7 20 811 51	glad i am	From Cantons When the
20 8 26 8 5	2	Enter Goodness,-What's the matter?-I afk ten thousand par-
	2 0	dons. But inftead of Smp's droil.
22 10 30 8 5	21. 7	jit turns out to be a Moravian
23 11 39 8 5	الداء	Hymn Book.
37 9	A Proper per	- 1
4 200	bigion bi	Desappo nument sat upon every
17 21	ding, Eiz	Countenance.—However, faid he, I can repeat a poem, of his, by
11001	1 4 tondoles	heart, but for that we muft refer
	"I'm I Wart nies	you to the forty-ferond page of this
100 0 00 2	2 2 Sec. 46	delectable pariormance.
	444 W 10	
	444.6	
31 6 49 6	(4) (0,	

Very necessary for all those who he to go to law	ave no	mo	re f	ensi	e than
Hillary Term begins Jan. 23, a	ind end	s Fe	b 1	2,	
Returns or Effoign Days. In eight Days of St. Hillary,	Jan. 20 27 Feb. 3		Ret	Ap. 23 30 6	Friday Friday Turíd
Easter Term begins April 29,	, ends	Maj	7 25		
In fifteen days after Bafter	April 26 May 3 1d 17	27 4 11 18	28 5 12 19	29 6 13 20	Wedn Wedn Wedn Wedn Mond
Trinity Term beigns June 12	ends J	uly	1.	•	1
On the morrow of the Holy Trinity In eight Days of the Holy Trinity From the Day of the Holy Trinity in 15 Days from the Day of the Holy Trin. in 3 Weeks	Jum 8 14 21	3 9 1 15 1 22	16	17 24	Frida Wedn Wedn
Michaelmas Term begins Nov. 6	6. ends				
On the morrow of All Soule, On the morrow of St. Martin, On the octave of St. Martin In 15 days of St. Martin,	Nov. 3	13	5 14	.6 ,16	Friday Mond Saturd Saturd
N. B. No fittings in Westminster-hall Ascension Day, Midsummer Day. The Exchequer opens eight days before any before which it opens but four days. Note, That the first and last days of every days of appearance.	Term be	fecon	exce	f Fe	sbruary, Trinity,
If that place where Old Satan car Is caft, be justly reckon'd, In rank to fisnd as bell the first, Then Law is hell the feeond.	4		-		-

POOR ROBIN.

Which our Forefathers always reckon'd. And mostly call'd it. Part the Second.

Common Notes for the Year 1789.

Golden Number 44 Cycle of the Sun 6 | Number of Direction 22 The Epack. The Roman Indictiony Demisical Letter D.

ASTRONOMICAL CHARACTERS.

PLANETS :

...The Sua.

- The Moons
- Wercary.
- Q. Venus...
- A Marec
- Iupiter.
- h Saturn.
- Ascending Node.
- g Descending Node. & Conjunction.
- & Opposition.

Signs of the Zodiac.

- 9. Aries
- 8. Taurns. II Gemini.
- 25 Cancor.
 - M Leo.
 - 吹 Virgo:
 - A Libra.
- m Scarpia.
 - 1 Sagittavius.

 - 19 Capricorn. a Aquarius. H Pifces.

ANATOMY.



Within this Ball, to thew you all Would neither be fair nor polite : So look you Nelly, there's the Belly; But the Secrets are hid from your Sights Of the ECLIPSES for the present Year. 1789.

In my last Ephemeris, I gave a wonderful and learned Account of Eulipses, and how the word Eclipse was derived from the Latin Word Eclipse, which Word was also derived from the Greek Word Earston, which I learnedly observed, was very likely derived from some Hebrew Root or other. But my Hebrew Lexicon being at Times not at Home, as for the greater Security of so valuable a Book, I had very prudentially put it in the Possession of an honest Pawnbroker; a Man highly eminent for taking particular Care of whatsover is committed to his Charge; I omitted

carrying the Derivation any higher than the Greek.

I likewise in the abovementioned Performance observed the modern Mode of secusing the many Words which we had borrowed from the Ancients to ourselves, by either Abbreviations or Augmentations; that is to say, either clipping them shorter, or hammering them out, with several convincing Instances to confirm the Same. We likewise give the Nature and Manner of an Eclipse, which we in a modest and becoming Manner elucidated with a Case between Nelly and Roger. And to finish the whole in the highest Manner, and at the same Time adapt it to the meanest Capacity, we closed the whole with that great and wonderful Invention of a walking Orrery.

For Particulars, we refer our Readers to the Work itself; or as the first Edition, by Reason of the great Run that Performance had, has been long sold-off; we refer them to the second Impression, which will be illustrated with Annotations, Marginal Notes, &c. and ready for the Press, as soon as a proper Subscription shall be procured; therefore not to hinder Time or waste Paper; according to our usual Brevity

we straight begin to treat

Of the Eclipses for the present Year 1789.

This sublime Subject, oh it requires the Aid of Poetry:

Sing heavinly Muse; oh, sing in solemn Strain, Of the Orbs in the Sky,

How like Footballs they fly;

O1 it's fo heav'nly I'll begin again.

Of the Eclipses in the Year 1789.

Within the Compass of this Year will be Eclipses less than Five, and more than Three, . In thort there's Four; and neither more por lefa; Two of the Sun; the other you may guels. But then to tell thee how,-the where,-the when, That's not a Tafk Of Muse to ask, So you gentle Mule May depart if you chule; Most readily the Muse reply'd, Amen. Then foaring high on Wing as light as Feather, She left Aftronomy and Profe together. These two agreed it, after some debate, That Profe thould write; -the other calculate.

Aftronomy, (ever right watchful and fleady,) For he always at Hand had his Telescope ready. He brought his Tables which he us'd; I wish'd he'd brought some Drink out : 160 a see And while he wifely them perus'd, Profe pull'd his Pen and lak out.

Says Profe, while you're poring, and fearthing about These plaguy Eclipses to find them all out, Suppose-But hark, fays my Reader, how can you suppose That a jurgle of Rhiming thould e'er come from Profe; Tis like feeking a Rose on the Heath, Oh but (quoth I,) the Subject's fir'd him With Phonghes sublime, the God's inspir'd him, And he's rleyming in spite of his Teeth. And fee already he's begun a Line.

Of the Eclipses in the Year 1789.

To this Reply, Aftronomy an Answer made in brief, Come now let us go forward without any pother, There are Tables to write about one Thing or other, So take another Leaf.

A TABLE Securing the MOON'S SOUTHING for the with her either

M.	la	n.	1	èb.	M	arch.	A	pril.	N	lay.		inc.
D.	Ħ.		H.	M.	H.	M.	H.		H.	Лау. М	H,	M.
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YEAR 1789, highly needfary for all who have any Bufiness by Land or Water.

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To oblige our numerous Readers on the Sea Coasts, and make the Ephomeris of general Use; we have again inferted the Tide Table.

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TOTE, that the Moon's Age being taken notice of by the Rule in this Table, you may obtain the Time of High Water at all the Places abovenamed. Observer When the Moon is one or fixteen Days old, it is High Water at London, Timmouth, Hartlepool, Sec. at 3'oClock, and 48 Minutes pass. Observe the same of the rest. his plain to the meanest Capacity. The Day of the Moon's Age you

in the fixth Column on every left-hand Page of the Calendar.

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	For ou	r great	Monat	ch, Da	y by	Day		,,	٠ .	_

Let Soldiers fight, and Bishops pray;
I'll do my Part likewife;
For while the plodding Staresmen think,
I'll calmly fit me down and drike;
And that will help Excise.

Of the Eclipses which will happen in the Year 1789.

N the present Year there will be sour Eclipses, viz. two of the Sun and two of the Sun an the Sun and two of the Moon; one only of which will be visible to the Inhabitants of Great Britain; but (to speak like a modern Author) the great Demand there is for this Ephemeris in all Parts of the Globe, demands tny utmost Attention, that every One, wherever fitnated on this terrestial Globe, may know where they will be seen; and of Consequence, where they will not.

The first is a partial Eclipse of the Moon, and will happen according to the best Tables Astronomy has yet produced, on Saturday, the Ninth Day of May, in Manner following:

Beginning - 8 H. 38 Min. 9 H. 31 Min. Lin the Morning. Middle End + . = 10 H. 24 Min. 1 H. 46 Min. 3

This Eclipse will be invisible to us, but in the western Parts of America, both North and South, it may be seen, The Inhabitants of East and West Florida, the Havanna, and Jamaica, may observe the Beginning of it; but the Pleafore of viewing the whole is referved for the Astronomers of the Sandwich and Friendly Islands, New Zenland, Yedfo, Japan, New Holland, and the Phillippine Isles. I shall only here add that the Digits eclipsed will be 2 Deg. 54 Min. on the Moon's Northern Limb.

The Second will be an Eclipse of the Sun, which will happen on Sunday the 24th of May, at 20 Min. past 10 in the Evening. This although invisible to us, will be a central Eclipse on the Meridian, at 18 Min. past Ten, in the Longitude of 54°. 29' West, and Latitude of 11°, 14' South of

Greenwich Observatory.

The Third will be a partial and visible Eclipse of the Moon, provided the Air permits—not else for the World.— As no Son of Urania would wish a Cloud in the Way; why -mind you now I'm speaking logically. I say why should they wish it out of the Way, -Let us lay this Matter out in somewhat like a Syllogism:

I wish there may be no Clouds-

The Lord sends Clouds when he pleases-

Would you wish the Lord to alter his Pleasure for yours? Now whether this be a Syllogism in Barbara, G. Celerent, or what other Term it bears; Heaven is my judge, I cannot tell you;—but I know it is Truth and good Sense, which is more than all their Terms put together.

Re.

This with a Type of the fame take as follows.



Beginning, Nov. 2d. at 11 H. 27, m. Night Middle; - Nov. 3d at 0 32 m. Morn. End 1 36 Mora.

Digits eclipsed 3 Deg. 40 Min. on the Moon's Southern Limb.

This will be a visible Eclipse to all the Inhabitants of Europe and Africa, and the Western Parts of Asia, together with the Eastern Parts of America; but in the Eastern Parts of Asia, China, Siam, Chinase Tartary, ac, the fore Part of it will only be seen.

The Fourth, and last for this Year, will be an Eclipse of the Sun, which will happen on Tuesday the 17th of Nov. at 29 Min. past Three in the Marning.

This although an invisible Eclipse so us, will be visible in China, and the Eastern Parts of Great Tactary; likewise

Japan and Yedfo.

The Sun will be centrally Eclipsed on the Meridian at 22 Min. past Three in Long. 129 Deg. 31 Min. East, and Lat. 14 Deg. North of Greenwich Observatory.

There will likewise in the Course of this revolving Year be a remarkable Transit of the Planet Mercury over the Sun's

Disc. of which take the following Calculation.



Beginning Nov. 5th 1 hour 10 Mim. P. M. & Lat. 9' 20" South. Beliptic Conjunction 3. - 30 Middle of the Transit 31. - 37

Sun fets - - 4 - 39 End - - 6 - 4

Total Duration - 4 - 54

This Transit will be visible in England till Sunset; and the latter Part will be seen at the Cape Verd and Canary Isles, the Azores, Iceland, Greenland, and to the North and North West as far as Bassin's Bay.

Thus you have two ferious Pages upon a sublime Subject, which my dear Lady has read over with a Tear, of Joy in her Eye, while she is thankful in her Heart, that she has lived to see a Thing which she never expected.

Surp's Poum, as promis'd in our Obfervations for December.

As we by ancient History are told;

When this Church had a Leg, and that, forfooth,
An Arm, a Scull, or else perhaps a Tooth,
Of fome right precious Saint; the Touch of which,
Could cure the Plague, the Gout, or Pox, or Itch.
Carver's were then employ'd each Shrine to grace,
And Images were fix'd in ev'ry Place.
Date we our Tale from hence, and next descry
A Parish Meeting, and the Reason why.

Within an antique Temple long had flood.

As good a God as e'er was made of Wood;
But now with Age grown worm eaten and rotten,
They thought it Time the God should be forgotten;
Some said moreover—(though the Thought was wildish)
As he's fo very old, he must be childish.
For this the Wardens would a Vestry call,
Whether to know (as this was fit to fall)
They'd have a new God, or ne God as all.

Here they all agreed, it would be very odd,
For them to have a Church, and ne'er a Goden to the
One must be got.—But sisk the Gentry said for
A Certainty as this God must be paid for,
Out of a Parish Rate to be assessed.
They would by no Means have the Poor oppress de
They therefore thought their Bus ness was to take
The cheapest God that any Man would make.

Then flarted up a Tradelman, hight Bzek'el, Who dealt in Candles, Nails, and Oil, and Treacle, There is faid he within this Parish here, One that will do this Job, and not be dear, And let's directly fend the Sexton to him; It's fuch a One the Joiner; you all know him. I'm very sure he'll do it to a T. I know the Man; he buys his Nails of Sec.

Here, said a Butcher-Hark ye Friend, between us, Ere he be sent for.-Has that Man a Genius?

Z—ds cry'd Ezekiel in a Paffion hurld,
I'll bring a Proof of that against the World.
He owes me Shillings now above a Score,
And Genius you know is always poor.

And here a Tailor spoke—said he, that's flat,
And I myself can witness bear to that:
I'll tell you likewise how I came to know it;
I made a Pair of Breeches for a Poet,
And I've his Bill at Home unpaid will shew it.
But what in this Affair he did propose,
Was that he wish'd to make the God some Clothes.
Howe'er he wish'd no Benefits to reap,
For he would make his Garments very cheap;
From Remnants, he would make him such a Shiner,
There's not a God in these Dominions siner.

Blood, fays a Draper, Is it thus you hatch work; D'ye think to fob us with a God of Ratchwork? No, no,—I'll fee his Clothing near and fine is; The God shall have as good a Coat-as mind is. To that I'll promise for myself to see; None of your Merry Andrew Gods for me.

A Mercer faid he'd find the God a Shirt, And let the Parish have it cheap as Dirt.

A Barber faid—to make the God look big an High Festivals he needs must have a Wig on, He thought of making a full bottom'd high Wig; But if they pleas'd, the God should have a Tye Wig.

A Wig he fure must have; and over that, A Hatter said, the God must have a Hat. Yes, said a Hoster,—and I will make bold. To say his Stockings should be clocked with Gold.

A Tanner, who as yet had never spoke, Now 'rose, and gravely thus he Silence broke; The Argument which chiefly he rely'd on, Was here as how, the God hould have a Hide on's

And

And all that he proposid was only whicher They would agree upon what Sore of Leather.

'Twas here a Shoemaker lift up his Voice, Seal Skins he faid were belt; and he had choice. No, said a Fishmonger, we'll have no Seal Skins, Be rul'd by me, and make his Hide of Eel Skins. Stay, faid the Wardens-not without fome Laughter; First raise the God-We'll talk of clothing after. To this they all agreed, no more was faid ; The Joiner lent for, and a Bargain made, To bring his Work in, too, a Day was fot; The Day arriv'd, and all the People met, To fee the pow made God each was in Flame, The Church was crowded, and the Joiner came; The God produc'd.—But, on his first appearing, Such was the laughing, histing, curking, swearing, That ne'er was known such jarring, growning, flouting, Since wrangling Mobs first learnt the Art of Shouting.

However, wil the Joiner had to fay for't.

Was this :- he'd made the God :- and they must pay for't.

They bade him take again his Log of Wood;

He swore he would not, and they swore he shou'd.

The Warden, apprehensive of a Riot, (To clear the Church, and keep the People quiet) Thus spoke.—My Friends and Neighbours all, my Trutte You'll go and order this before a justice; And not flay wrangling here from Morn till Night, But let his Worthip fet the Matter right, To this Advice the People all agree: Then turning to the Sexton :- Go, faid he, And fay that we depend upon his Wisdon, To view the God, and tell the Joiner his Doom. Within the Patish, very near the Place, There dwelt a Justice with unmeaning Pace; Upon whose Brow dwelt a majestic Scowl Like that of Bird of Palfas-call'd an Owl. A Man he was, who with a large Affortment Of Dulnels, pais d for one of grave Deportments. His Obentehance had much the heavy Look 22 6 14 Of weary Student nodding o'er his Book; Digitized by Google

Or Parish Clerk, when giving out a Staves. Or melancholy o'er a new made Grave.

To him the Sexton did his Tale relate,
And that the Parish meant on him to wait;
And to avoid all Clamour and Division,
They all resolved to stand by his Decision,
His Worship of his Consequence right big
Slip'd on his furred Gown, and Sunday Wig;
Then squeez'd into a two arm'd Chair (scarce able,
To hold him) fix'd behind a large square Table;
Two Bottles and two Glasses standing thereon,
And the sour Gospels not to read, but swear on;
And thus equipp'd, he sat by Law appointed
High Representative of God's Anointed.

And now behold his Worthip sit in State, Hearing the Parish all their Griefs relate. The first who spoke complaind his Size was stinged a fecond he was crook'd; a third he squinted. It was a Crabtree God.—The Joiner spoke. And swore the God was made of Heart of Qak. The Warden said, he knew not what the Tree was. The God was no more like a God than he was.

The Justice who in former Part of Life, Had had some Dealings with the Joiner's Wife, In this Affair humanely set his Heart Kindly to plead his Cause, and take his Part. Cry'd mind what I fay-When you go to tax Work Of Wood; -you can't expect a piece of Waxwork. Why I-I know the Law. -I don't know carving; But this I know—I see the Fellow's starving. He's done his Work. You own the Bargain made: He must, - Oh yes the Fellow must be paid. Then this might be to him a Piece of odd Work; Perhaps (poor Man) he is not us'd to God-work. Though now I needs must tell yo, for a Wood God, Methinks it seems a tolerable good God: And if you think it for a God too small; Call it a Godling-that will falve up all, However-Stay .- Yes, this I will maintain (John, all the Glass and let me drink again.)

A Silence here enle'd for Minutes four,
Some Authors fay; though others fay 'twas more.'
While he feem'd pondering, and fix'd his Eyes
Now on his Liquor, then toward the Skies;
And look'd fo wondrous wifely o'er his Drink,
A Stranger would have fwore the Thing could think;
Then drinking off his Glass, he Silence broke,
And thus in magister'al Tone he spoke.

I will maintain in this here Cafe, said he, You all did mighty well to come to me; I must confest I hold it much more wife Than bringing on a Tayal at the Affize: 'Tis better far :-- better on ev'ry Score, For Law is chargeable, the Fellow poor. Call Silence there.—John fraightway call'd out Silence, With Voice so loud, it might be heard a Mile thence. Then spoke his Worthip with a Look prosunding And very gravely cast his Eyes around, Now mark me well what I intend to do: I neither mean to hurt the Man not you. The Man must have his Money for his Labours; Oh! pay the Man his Due, and live like Neighbours ; As to the God-If 'tis not to your Will, It very well may ferve for fomething still. You know-(He paus'd-and, as the Story goes, Pull'd out his Handkerchief, and blow'd his Nose; Then to the Joiner with a Look severe, Hark you, said he-you carving Fellow there:) You know we read of Beings good and evil; What will you take to make this God a Devil? Can you make One?—I can upon my Life, Sir. What will you make it by?—Quoth he, my Wife, Sir. Let them but pay me now just what they ought, And then I'll make a Devil on't for nought.

Why Neighbours (faid the Justice) I declare, Upon my Soul, the Man speaks very fair; I say the Word—deny it now who dare. Here, take the God away, and see you do't, Make him all o'er as black as Hell with Soot; His Forehead you a Pair of Horns must nail on, and hark you, Friend—befure you clap a Tail on;

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Fire to his Legs a Pair of cloven Feat,
And bring it to Mx Weeship here to fee't.
The Joiner went, and quickly made by Odds,
The best of Devils of the worst of Gods.

And now behold, the People all amas'd,
At what, as God they hated flood and gaz'd;
And all admiring as a Devil prais'd.
The Churchwarden on feeing this relented,
Paid down the Cafe, and all were well contented.
Cry'd with what Skill his Worship weigh'd the Causes
Extoll'd his Wisdom much, and humm'd Applause,
Aye (faid the Justice) new you see it sue is,
To have among you such a Head as mine is.
Go clear the Hally bid Sulan bring my Cap.
I'll drink my Bottle off, and have a Nap.

Then to the Joiner, who was still to View,
Come back, said he—I want to speak to you.
Now learn Instruction from a Man of Leners,
And mind in future how you carve your Betters.
As to this God:—this Devil here I mean,
(For surely such a God was never seen.)
I stood your Friend, because I saw you starv'd;
But had it been an Alderman you'd carv'd,
As I'm alive, no Money should have bail'd you;
But spite of all your Friends, I should have jail'd you,

OBSERVATIONS on the FOUR QUARTERS.

HE Spring Quarter commences on the 20th Day of March, at 3 Hours, 53 Min. in the Morning, when the bright God of Day, mounted upon a Ram vifits the Northern Hemisphere, and in a few Weeks gallops off to a Bull-baiting: After this, he pays a friendly Visit to two twin Brothers, after which Spring retires, and Summer takes Place.

ТЬ

The Summer Quarter begins on the 21st Day of Jone at 1 Hour, 55 Min in the Morns in the first Fart of which he will be decently employed in the deficate Discrision of Crab Hunting; in the Middle Fart he will engage with a Lion; when having prov'd his Strength; he proudly walks forth, and spends it upon a Maid. Upon leaving her; Summer retires, and Automn advances.

The Autumnal Quarter commoness on the 22d Day of September at 3. Hears, 28 Min.: in othe Africanon, which Phoebus taking the Balance in his Hand, finds that Days and Nights—A Lawyer's Honofty, and a Mifer's Charity—A Bawd's Modesty, and a Hyperine's Religion, exactly balance each other: While a Wife, a Drawim too light, makes the Heart of her Husband a Poand too heavy. —The middle Part of this Quarter he will be employed in franching for Scorpions, and the latter Parein admining the Dexterity of an Archer. Autumn then bids adieu, and Winter takes Place.

Winter advances on the 27st Day of December at 7 Hours, 59 Min. in the Morning, and flacts the God mounted upon a Goat; when after a Moath's riting, a Month's feaking with the celestial Pot-bearer, and a Month's fishing in the Great South Sea, he promifes to wifit the Northern Regions again. But as he is now gallop'd fo far that we can fearce come at the Sight of him, I here wish the God and the Goat a good Journey:

The Year concludes—The God has run his Race—
Still he proceeds, nor flacks his wonted Pace;
And now with Snow the Fields are whiten'd o'er;
Round the rule Heath the building Tempests roar.
No more the areams in sweet Meanders stray,
But dusky Class obscore the Face of Day.
Thus like the aris Man when he grows old,
With Snowy , Eyes dim, and Blood runs cold;
He pants, he is the straggles, and in sine,

Departs, as does he Year of Eighty Nine.

Speculum Anni:

SEASON on the SEASONS,

For the Year of our Lord 1789, BEING THE FIRST AFTER

BISSEXTILE, OR LEAP YEAR.

Wherein you will find all Things necessary for such a Work; Sun and Moon's Rising and Setting; Moon's Southing, Planers Places and Aspects, Eclipses, Judgments on the Weather, and Four Quarters; Remarks about the Sun, Monthly Pourry, and other Novelties.

By HENRY SEASON,

LICENSED PHYSICIAN,
And Student in the Celestial Sciences, near Devizes.
With a particular Judgment of the Relipses, &c.

Omnis donatio bona, & omne interestationem Est superne descendens à vatre les since 20.1.17.

God hath granted me to speak according to me will and to judge worthily of the Things that are given me with he is the Leader unto Wildom, and the Director of the Wile: How the Times alter, the Change of the Seasons, the Course of the Year, and the Situation of the Stars.

Wild. chap. vii. ver. 15, 19.

The facred Fiat! no foomer nam'd,
But Heav'n with all its Hofts were fram'ds
Phobus display'd his fiery Car,
And Wissom marshall'd ev'ry Star;
Six Worlds around the Sun did glide,
He gave their Light, and Motions guide;
By secret, fix'd, attractive Laws,
They all confess th' Admighty Cause.

The Author's Fifty-fixth Impression.

LONDON

Printed for the COMPANY of STATIONERS, and fold by ROBERT HORSFIELD, at their Hall, in Ludgate-fireet.

[Price Nine-Pence flitched.]

The common Notes for the Year 1789.

The Golden Number 4	Shrove-Sunday Feb. 22
The Epact 3	Ash-Wednesday 25
The Cycle of the Sun 6	Easter-Day Apr. 12
Dominical Letter D	Whit-Sunday May 31
Roman Indiction 7	Advent-Sunday - Nov. 29
Septuagesima Sunday Feb. 8	Sundays after Trinity 24

The 12 Signs. The 7 Planets, and the Aspects.

U - · · ,	•
↑ Aries	⊙ Sum
8 Taurus	D Moon
II Gemini	h Saturn
25 Cancer	24 Jupiter
N Leo	& Mars
呗 Virgo	2 Venus
△ Libra	
m Scorpio	& Conjunction
☆ Sagitary	* Sextile
by Capricorn	□ Square
Aquarius Aquarius	△ Trine
* Pilces	8 Opposition

The four Quarters of the Year.

Summer Quarter begins - Ju Autumn Quarter begins - Se	ine 21	3	55 28	Aftern.
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Venus is a Morning Star till May 20, and then an Evening Star for the rest of the Year. Jupiter is a Morning Star till Jan. 14, then an Evening Star till Aug. 2, and then a Morning Star for the rest of the Year.

A TABLE

A TABLE of the Kings and Queens of England, from the Conquest to the present Year 1789

Names of Born	When	Reign.	Since their Reign	Buried at
	Began to reign.	Y. M.	ended.	
William 1 1029	1066, Octob, 14	20 11	702, Septem. 9	Caen, Nor.
William 2 1057	1087, Sept. 9	12 11	689, August 2	Winchest.
Henry 1 1068		35 4	654, Decemb. 1	Reading.
Stephen 1105	1135, Dec. 1	18- 11	635, Octob. 25	Feversham
The Saxon Line Reftored.				
	1154, Oct. 25			Fontevr.
Richard 1 1156		9 9	590, April 6	Fontevr.
		17 6	573, Octob. 19	Worcester
	1216, Oct. 19	56 I	517, Nov. 16	Westmin.
	1272, Nov. 16			Westmin.
Edward 2 1284	1307, July 7	19 7		Gloucester
Edward 3 1312	1327, Jan. 25	50 5		Westmin.
Richard 2)1366	1377, June 21'	22 3		Westmin.
The Line of Lancaster.				
Henry 4 1367	1399, Sept. 29	13 6	376, March 20	Canterb.
	1413, Mar. 20	9 5	367, August gi	Westmin.
Henry 6 1421	1422, Aug. 31	38 6	328, March 4	Windfor
The Line of York.				
Edward 4'1442	1461, Mar. 4	122 I	306, April 9	Windfor
Edward 5 1471	1483, April 9			Unknown
Richard 3 1442	1483, June 22	2 2	304, August 22	
The Families United.				
Henry 7 1456	1485. Aug. 22	123 8	280, April 22	Westmin.
Henry 8 1402	1 509, April 22	27 0	242, Jan. 28	Windfor
Edward 6 1537	1547. Jan. 28	6 6	236, July 6	Westmin.
Qu. Mary 1516	1552, July 6	5 4		Westmin.
Ou. Eliz. issaa	1558, Nov. 17	44 4	186, March 24	
The Union of the Two Crowns.				
James 111566	1603, Mar. 24		164, March 27	Westmin.
	1625, Mar. 27			Windfor
	1649, Jan. 30	16 C		Westmin.
James 2,1639	1686, Feb. 6	4 9	100, Feb. 13	S.Germain
1 507-11 4 3 1	-	1 '	1 , , , ,	Westmin.
Mary \$ 1050	1689, Feb. 3	13 1	87, March 8	AA CITILITIE.
The Union of the Two Kingdoms.				
Qu, Anne 1665 1702, Mar. 8 12 5 75, August 1 Westmin.				
George 1 1660		1 12 1	62, June 1	Hanover
George 2 168	11727, June 1	1 33	4 29, Oct. 2	Weftmin.
George 3 173	1760, Oct. 2	5 Cro	wned Sept. 22,	1761.

4

A TABLE of TERMS and their RETURNS.

Hilary Term begins January 23, ends February 12.

Returns or Effoign-Days. - ERAWD
In eight Days of St. Hilary, - Jan. 20
In 15 Days of St. Hilary - 27
18 29
30 Frid.
On the Mor. of the Purificat. of B.V.M. Feb. 3
In eight Days of the Purificat. of B.V.M. - 9
10 11 12 Thu.

Baster Term begins April 29, ends May 25.

In 15 Days of Easter - - - April 26 27 28 29 Wed. From Easter in 3 Weeks, - - May 3 4 5 6 Wed. From Easter in 1 Month, - - - 10 11 12 13 Wed. From Easter in 5 Weeks, - - 17 18 19 20 Wed. On the Morrow of the Ascension-day, 22 23 24 25 Mon.

Trinity Term begins June 12, ends July 1.

On the Morrow of the Holy Trinity, June 8 9 10 12 Frid. In eight Days of the Holy Trinity, 14 15 16 17 Wed. In 15 Days of the Holy Trinity, - 21 22 23 24 Wed. From the Day of the Holy Trin. in 3 W. 28 29 30 J1 Wed.

Michaelmas Term begins Nov. 6, ends Nov. 28.

On the Morrow of All Souls, - - Nov. 3 4 5 6 Friday
On the Morrow of St. Martin, - - 12 13 14 16 Mond.
In eight Days of St. Martin, - - 18 19 20 21 Satur.
In 15 Days of St. Martin, - - 25 20 27 28 Satur.

N. B. No Sittings in Westminster-Hall on Ascension-Day, Midsummer-Day, and the 2d of February.

The Exchequer opens eight Days before any Term begins, except Trinity, before which it opens but four Days.

Note, The first and last Days of every Term are the Days of Appearance.

A CATALOGUE of the Most Reverend, Right Reverend, and Reverend, the Archbishops, Bishops and Deans, exercising Ecclefiastical Jurisdiction in England, 1789.

Archbishops. Dr. John Moore Dr. Wm. Markham Bishops, \ Dr. Beilby Porteus. Dr. Thomas Thurlow Hon D. Brownl, North Sir Wm. Ashburnham Dr. Charles Mols

Dr. Jonsthan Shipley Hon. Dr. S. Barrington Dr. John Hinchliffe Hon Dr. James Yorke Dr. John Thomas Dr. Richard Hurd

Dr. John Butler Dr. John Ross Dr. John Warren Hon. Dr. Ja. Cornwallis Dr. Samuel Halifax Dr. Lewis Bagot Dr. Richard Watson Dr. Edward Smalwell

Dr. Chriftopher Wilson Dr. William Pretyman Dr. John Douglas Dr. Wm. Cleaver

Dr. Sam. Horsley

Dr. Claud, Crigan

Deans Names. Dr. George Horne Dr. John Fountayne

Bp. Pretyman Bp. Hinchliffe Dr. Newton Ogle Dr. Charles Harward Lord Francis Seymour Mr. W. Shipley Dr. John Ekins

Dr. Charles Tarrant Dr. William Cooke Dr. Thomas Dampier Dr. St. John

Dr. Nat. Wetherell Dr. Baller Dr. Thomas Lloyd Dr. Baptift Proby

Dr. Jofiah Tucker Dr. Philip Lloyd Dr. Adams, Archdeac. Dr. Jack fon

Dr. John Hallam Dr. Rich, Kaye Dr. Jeff Ekins

Dr. George Cotton Mr. F. Wollaston, Prec.

Bp Thomas Bp. Douglas

Names of the Sees. Canterbury York

London Durham Winchester Chichefter Bath and Wells St. Amph Salifbury

Peterborough Ely Rochester

Worcester Hereford Exeter Bangor Lichfield and Coventry

Gloucester Norwich

Llandáff Oxford Briftal Lincoln Carliffe Chefter

St. David's Westminster Windsor Sodor and Man

The Names of the Learned Judges in the Law.

1. Right Hon. Lord Thurlow, Lord High Chancellor. Sir Arch. M'Donald, Knt. Attor. Gen. Sir John Scott, Knt. Sol. Gen.

II. In the SRt. Hon Lord Kenyon, L.C. J. K. Bench. [Sir Wm. Henry Afhhurft, Knt. III In the S Rt. Hon. Al. Lord Loughborough, L. C. J.

Co. Pleas. 2 Sir H. Gould, Kt. IV. In the S Sir James Eyre, Knt. L.C. B.

Exchequer. 2 Sir Beaumont Hotham, Knt.

Fran. Buller, Efq. Sir N. Grose, Knt.

John Heath, Efq. Sir J. Wilson, Kt.

SirRich. Perryn, Knt. Sir Alex. Thomson, Knt.

A TABLE shewing the Moon's Southing for Farmers and others that breed Cattle, but men and others that sail on the Water.

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all the Months of the Year, very necessary for all especially and more worthy of Notice to Water-

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Now Winter spreads his wide domain.

And Clouds obscure the Sky;
The blustring Storms, th' impending Rain
Around tempessuous fly.
While Hills and Vales, once pleasing to the Sight,
Benumb'd with Frost, are cloth'd in chilling White.

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OBSERVATIONS.

of natural and experimental Phiinspire us with grateful Adoration Being, whose wonders are past findfe tender mercies are over all his t I could not more properly introual Performance into the World, it in with an elegant Poem, from ruly learned and pious Divine, the And if by his means I make inted with a Piece fraught with d the most beautiful Imagery; and to mend both the Head and the as I think it is now in few Hands: is and contemplative Part of my flatter myfelf I may without var Part, will not think the followrather an Embellishment to this

In a former Ephemeris I remember I began my Observations in the Monthly department, with an Extract from the Abovementioned; which was kindly received, and which indeed was all I then knew of it: but the Whole having lately fallen into my Hands, I thought I could do my Readers no better service than by introducing it to their Acquaintance, and which I desire them to accept without any further Apology.

Hymn

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Rivers in Icy Fetters bound,
Unwary Feet betray,
And hardly o'er the Heath is found
'The once frequented Way.
And Mountains higher feem to grow,
While lab'ring under piling Mounts of Snow

		W	hil	e lat	ring under piling Mounts of Snow.
M	01	rifes	0	íers	
D	'n	m		m	OBSERVATIONS.
D	7	26	4	34	Hymn to the Great Author and Preferver
2	ı.	24		36	of the Universe.
3		23		37	My God I love and I adore;
4	7	21		39	But Souls that love would know thee more.
5	7	19		41	Wilt thou for ever hide, and fland
-		17	-	43	Behind the Labours of thy Hand?
7 D	7	15		45 46	Thy Hand unseen sustains the Poles,
	7	14		48	On which this huge Creation rolls;
9		12		50	The Starry Arch proclaims thy Pow'r, Thy Peacil glows in ev'ry Flow'r.
11	ľ	8	4	52	Thy reach grows in to ay 1 tow 1.
1 2		6	4	54	In thousand Shapes and Colours rife,
13			4	56	Thy Painted Wonders to our Eyes;
14		3		57	While Beasts and Birds with lab'ring Throats, Teach us a God in thousand Notes.
į,	7		4	59	
16		59		1	The meanest Pin in Nature's Frame,
17		57	5	3	
	6	55		5	From Hill to Hill, from Field to Grove.
119	6	53	5	5 7	
20	6	51	5	9	Across the Waves, around the Sky, There's not a Spot, or deep, or high,
	6	4	5	11	Where the Creator has not trod,
	6	47		1 3	And left the Footsteps of a God.
23	3 6		5	15	•
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First Quarter the 4th day, at 11 at night. Full Moon the 11th day, at 2 in the afternoon. Last Quarter the 18th day, at 2 in the afternoon. New Moon the 26th day, at 7 in the afternoon. New Moon the 26th day, at 7 in the afternoon. 2													
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March next appears, and howling loud,
The Tempest roars abroad;
While gloomy Clouds the Sunbeams shroud,
And miry is the Road.
Now rolling Torrents down the Mountains roan

ł		A	ow nd	Val	ing Torrents down the Mountains roar, es with Water now are cover'd o'er.
м	<u> </u>			iets	
D	þ.	n:	ā	m	OBSERVATIONS.
_	_	_	-		
	6	34		26	But are his Footsteps all that we, Poor grov'ling Worms, must know or see?
2		32		28	Thou Maker of my vital Frame,
3	6	30	5	30	Unveil thy Face, pronounce thy Name.
4 5 6	6	28 26	5	32	Shine to my Sight, and let the Ear
6	6	24		34 36	Which thou hast form'd, thy Language hear,
7	6	22	-	38	Where is thy Actuachee: On . why
7 D	6	20		40	Doft thou avoid my searching Eye,
9		18	5	. 42	My longing Sense? Thou great unknown,
10	6	16	5	44	Say, do the Clouds conceal thy Throne? Divide, ye Clouds, and let me fee
11	-	14		46	The Pow'r that gives me leave to be.
I 2		I 2		48	•
13		10	5	50	Or art thou all diffus'd abroad, Through boundless Space, a present God,
17	-	8	5	52	Unfeen, unheard, yet ever near,
16		6	,	54	What shall I do to find thee here?
17		4	5	56 58	Is there not some mysterious Art,
18			5)	To feel thy Presence at my Heart?
19		58	6	2	To hear thy Whispers soft and kind,
20	5	56	6	4	In holy filence of the Mind? Then reft my thoughts, nor longer roam.
21	5	54		6	In quest of Joy, for Heavins at Home.
ועו	5	52	6	8	
23	5	50	6	10	
24	5	48	6	I 2	-
25	5	46		14	But,
26	5	44	6	16	
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21	١ŵ	Ox & Ca.T.b.	2	29	27	3	24	1		11		- ~ ·	
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29	W	Easter T. beg.				11	43		8	23	1	□ ¥ \$	
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Now Expectation wait awhile Though April weeps in Showers, The joyful Spring again shall smile, And Flora deck her Bowers In sweetest Trim, and all around be gay,

_		A	gaı	n to	uther in the welcome May.
		rifes	0	fets	:
D	h	m	h .	m	OBSERVATIONS.
1 2 3 4 D 6 7 8 9 10 1 D 13 14 15 16 17 18 D 20 21 22 23 24 25 D 27	55555555555555554444444444	32 30 26 24 22 20 18 7 15 11 19 7 5 5 5 5 5 5 4 4 6	666666666666666666666666666666666666666	m 280 2 4680 2 457 491 5557 91 3 46 8 0 2 4 5 7 9 1 1 5 7 9 1 1 1 5 7 9 1 1 1 5 7 9 1 1 1 5 7 9 1 1 1 5 7 9 1 1 1 5 7 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	But, oh! thy Beams of warmeft Love! Sure they were made for Worlds above. How shall my Soul her Powers extend, Beyond where Time and Nature end. To reach these Heights, thy best Abode And meet thy kindest Smiles, my God, What shall I do? I wait thy call; Pronounce the Word, my Life, my All Oh for a Wing to bear me far Beyond the golden Morning Star! Fain would I trace th' immortal Way, That leads to Courts of endless Day. There the Creator stands confest'd, In his own fairest Glories drest'd; Some shining Spirit help me, rise, And wast a Stranger through the Skies. Oh kindly meet me on the Road, First Offspring of th' Eternal God; Thy Hand shall lead a younger Son, Clothe me with Vestures yet unknown, And place me near my Father's Throne.
	4	39 37		21 23	

It

Now with a flow'ry Carpet spread, How lovely looks the Ground; While Spring creeks her blooming Head, And finites on all around: Enchanting is the Scene where'er we rove, Through Fields enamell'd, or the vocal Grove.

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o	3	54	3	6	
) (3	53	3	71	

OBSERVA-TIONS

It certainly requires the Pen of an Author of the first Rank, and far superior Abilities than the Writer of this Performance can pretend to, to display the Wonders every Day seen in this Terraqueous Globe. Fired, however, with the Magnificence of the Subject, and not without Hope that the Task, arduous as it is, and however meanly performed, may give Instruction to some of our Readers, and Amusement of the most rational Kind to all, we, according to our best Abilities, will proceed in Manner sollowing.

In taking a View of this supendous Fabric, we will first consider its. Figure.—It appears by the Searches of the most ingenious and diligent Observers, that this our Globe is nearly spherical; and, therefore, 'of all possible Figures, this on many Accounts is the most commodious; first, as it is the most capacious, as its Surface is equi-distant from not only its Center, but also nearly from that of Gravity and Metion.

This Figure is likewise the best calculated of all others in regard to those two inestimable Benefits. Light and Heat; since by this Means they are uniformly impacted to the Globe, and its Inhabitants, coming on, and going off in the same gradual Manner.

By this Means too the Diurnal and Annual Returns of Light and Darkness, Heat and Cold, Dry and Moist, are regular in Comparison to what they must have been had this great Orb been moulded a in any other Form. This Construction again is the most commodious and best adapted so the Distribution of the Water.

Th

18 J	UNE	ath xx	x Day	s.	D X S
Last Qua	on the 7th darter the 15th	h day, at day, at 8	7 at night	orning.	1 22 28 6 23 29 1 1 23 30 1 6 23 1 2 1 2 3 2 2 6 2 3 3
	markable O		D rife:	8 11 11	
2 T' WE MAN A CONTROL OF THE CONTROL	Alban E. KWS. Alt. J. Bapt. S. aft. Trin.	3 18 28 28 27 21 15 39 25 27 31 27 32 27 31 32 27 31 32 27 31 32 27 31 32 27 31 3 3 27 3 3 3 3 27 3 3 3 3 27 3 3 3 3 27 3 3 3 3	2 7 2 43 D rifes 8 a 47 9 29 10 2 10 29 10 52 11 31 11 50 morn 0 10 8 0 33 0 59 2 1 30 2 1 2 9 4 2 58 8 D fets 9 29 10 20 10 2	8 13 22 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3

Anon the Sun with fiercer Ray
Around transmits his Heat,
And shunning now the Blaze of Day,
We seek the cool Retreat;
The wide expanded Tree or mossy Cave,
Or Rivers calm, and in the Waters lave.

WL	0	riles	0	iet:	
Q.	h	m	h	m	OBSERVATIONS,
-					
	Г	52	Q	. 2	. This will dvidently appear, by supposing it of any
	3	2.	6	_	lan e i de la companya de la company
	3	51		. 9	present to you:-for fince it is evident by the Laws.
	3	51	ð	9	of Gravity) if the Earth was cubical, or any other
44	3	50	8	10	
5	3	. 49	8	. 11	and the other too dry. Hence it will appear evi-
	3	48	8	I 2	dent to every thinking Man, that of all possible
D	3	48	8	12	Forms, the great Architect of the Universe has hosen one the most proper, especially when we con-
8	3	4 7		42	fider what Influence high Mountains and Head-
	3	46	8	14	lands have upon the Winds: how by these some are
		46	g	-7	invited, and others retarded, diverted, and changed
ıd	,			7 47	near the Shores: If, therefore, such little Masses
4 1	1-	45	0	15	can produce these Estetts, what would be the Es-
1 3		45	ă	3.5	fect of such large Angles which must have existed,
13	3	44	ß	16	
Þ	3	44	8	16	i tribita ana indo Calla Maralda, and Canada, af arbitab i i
19	13	44	8	16	it is composed, wonderfully mark out to us the
16	13	43	8	.17	Powes and great Wildom of its Divine Bullder.
17	3	43	8	17	Here we find pertioned out to every Seed its Cli-!
18	12	43	8	1.7	male, and to every Climate its proper Hesbage
	3	43	8	17	Thus we find every Country, and every Soil abound-1
20		43	g		ing with Trees and Plants, futtable to its trouirs, and every one flourishing in its proper Soil, which
		75	0	17	and every one mourishing in its proper Soil, which, were it conveyed so another, would foon fide and
	3	: 43		17	die.
	3,	43	0	.17	Add to this, in the Formation of the World
23		43	ð	17	those Layers of Minerals, Metals, Stones, &c. with
24		43	8.	17	the prodigious Use they are to Mankind. Hence
25	3	43	8	17	the Materials for Buildings, Machines, Tools,
26	43	44	8	16	Vessels, &c. Gold and Silver, are become thei
27	3	44	8	16	Bafis of Commerce, the enricher of Nations; others are found deful in fertilizing our Lands;
Ď	12	44	8	16	and how many more are useful for Physic, Colours
29	12	45	Ŕ.	. 25	ing, &c. &c. neither you can guess, nor I definibe.
30		45	Q	15	B 2 Let
ľ"	13	כד	١	- >	<u> </u>

Next Autumn fee in rich Array, Succeeding Summer come, loyous and busy is the Day To gather Harvest Home. Then Autumn flies to fome more ferrile Shere,

And unto Winter leaves the Year once more.

MIO rifen O fets Dih b m

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OBSERVATIONS.

Let us next, in viewing this grand Piece of di-14 vine Mechanism, (if I may so style it,) take No-14 tice of those noble, and at the same Time neces-13 fary Appendages of this Terrestrial Globe, viz. Mountains and Vallies. These variegate the won-13 12 derful Scene, delight every Eye, and among the Poets have been the Song of Ages. Still pleafant, ftill delightful, whether from the Valley you be-11 hold the Mountains lifting up their lofty Heads, 10 or whether from their Summits you behold the extensive Prospect of Fields and Groves, de-8 lightful Lawns, pleafing Meads. Streams, hady Woods, lofty Palaces, and antique Towers, the Pride of ancient Days, while rolling Rivers haften to old Ocean, which, mingling with the Sky, concludes the Prospect!

But leaving the Sons of Fancy to contemplate the Scene, of which I have here given but a flight, imperfect Sketch, proceed we now to shew how far this Form on the Surface of our Earth relates to our Convenience.

. And here I observe through the Variety of Conflitutions among us, although many are frong enough to be indifferent about their Situations, yet too many are otherwise, as the more subtle Air of the hilly Country suits many who are dying in Fogs or the more groß Air of the City or great Towns; so on the other hand, others who languish on the Mountain's fummit, tafte the delicious Joys of Health in the warm Valley below.

B 3

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18/7

12		AUGUS'	r	hath x	xxi D	ay	s. ``	M b U D 米寧		
	Full Moon the 5th day, at 10 at night. Last Quarter the 14th day, at 2 in the morning. New Moon the 20th day, at 11 at night. First Quarter the 27th day, at 3 in the afternoon. 21 22 15 26 21 16									
M D	D D	Days, &c.	ا 0) Lon- gitude	D rifes and fets		25 329 5	Mut. Aspects and Weather.		
113 13 14 15 16 17 17 17 21 22 23 24 25 27	MTWTFS OMTWTFS OMTWTFS OW	Pr. W. H. b. 118.aft.Trin. St. Earthol.	11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 45 31 45 31 45 31 45 31 31 31 31 31 31 31 31 31 31 31 31 31	8 m 32 20 34 34 25 26 16 8 m 7 20 18 20	0 55 1 53 2 55 3 7 2 17 7 38 7 7 58 8 17 8 17 8 30 9 28 9 40 10 26 10 23 10 25 10 25	21 22 22 23 24 26 27 28 28 29 20 23 44 56 67 77	20 22 22 22 23 24 27 28 3 C C C C C C C C C C C C C C C C C C	A h to Bail, perhaps Na. of Jefus. fomethunder Dog-da end. O. Lam. day. Wind and rain. D. of York b. 6 14 14 Hot and dry Wind and fome rain. Variable		
29	S	Bch.St.J. Bap. 28.aft.Trin.	7	28 4c	11 53 morn 0 54	ç	2 3	7		

Stern Winter comes again ; with dry a " and if Again, the blyft ring Tempers was the of 2...

Again descende; the Rain, with the men in the men While fcouling Heav'ns and naked Barth declare, The lad Remains of one revolving Year.

Orifesi Oi sède Dia min' n m

We may here knowise consider the great Conventi-40 enge of these Protuberances, in affording the the 22 most convenient Place for Habitation & Screening 23 from us the North and East piercing Blafts, white we are comforted by the Southern Sun, and the gen-25 35 tle Zephyr. Salubribus not only to ourselves, but

5 the Garden which adorns our Habintion. 32 28 .90 30

These Hills are likewise useful for the Production of different Species of Vegetables, and that in great Variety according to the Diversity of Soils there found. These too serve either for Food to those A. 337 35 7 nimals who delight to live thereon; or Herbs and Roots for physical Uses; and great Botanite have: 37 7 38 observed, that the greatest and most luxurious Spe-

of those Places.

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ıó Nor are they destitute of Inhebitants. Not only 15 are high Mountains in Wales an Habitation for the Goats, but the high Pops of the tremendous Alpa 13 have the Ibex among the Quadrupeds, the Lagorus 11 among the Birds, and the Papilios among great flore of other Infects. Every Part of the Creation, it hence appears has its Ufe; he who formed the Mountains for thefe, formed them also for the Mountains.

cies in most of the General of Plants are Natives

18 497 194 517 53/7 204 214 547

> Laftly, It is to these that the Fountains owe their Rife, and the Rivers their Conveyance. Reflections upon these Objects will undoubtedly; firike the Soul with Wonder, Wonder will lead it, to Piety; and Piety lead it to Heaven.

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1 4 6

24 SEPTEM	B	ER h	th xxx	L	ay	s.	M b 4		
Full Moon the 4th day, at 2 in the afternoon. 1 20 18 Last Quarter the 12th day, at 7 in the morning. 16 20 20 First Quarter the 26th day, at 4 in the morning 21 19 21 26 19 22									
M W Remarkable D D Days, &c.	① 恢		D rites and fets	क ठु		草则	viot. Aspects		
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St. Jerome		26 22	2 12		/		e End.		

On this then let us contemplate:

B'er Life's fed Seene iscoler, s. Since time it is, or, foon or, late:

Ourselves skyll be no more.

Quick as flies Time, to quick we can our Race, And a new People shall supply our Place.

MO riles @ fets Dia marih

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We haften now to take a View of the various Inhabitants of this terraqueous Globe; and fiest let us speak of those winged ones who flit through the Air with such surprizing Velocity.

Here we see a surprising Imitation of Reason in their various Actions. Their Skill in building their Nests; their Care to prepare them in Time; their Sagacity in a Collection of proper Materials for the same, and lining it so curiously to make a downy Bed for their callow Young. have laid as many Eggs as they can conveniently 28 cover, their Prudence in leaving off, and betaking themselves to hatching, their painful Diligence therein, and the tender Caro they have for their Young, are all wonderful, nor do they cease their parental Care, till,

> "Rouz'd into Life and Action, light in Air, " The joyful Parents fee their foaring Race."

So numerous are different Kinds of Birds, that it is supposed Five Hundred different Kinds falls fort of the Number; some of these chiefly exist upon what they catch in the Air, or pick up from Trees, &c. others chuse the Earth for their Dwelling; while a third Sort delight in Water. The Feather of these are proof against the Wet, their Necks . 2 long, and their Feet webbed, fuitable to the Element for which they were destined: while Birds of Prev are armed with pointed Beaks and firong Talone.

Some of these are small, and belong to the Singing Tribe, while the larger Sort have disagreeable Vol ces.

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26 (OCTOBE	R					,	TO X S		
	·	•		7 11 7				1 18 23		
Full Moon the 4th day, at 7'in the morning. 6 18 24										
Lai	Last Quarter the 12d day, at 2 in the morning. 11 18 25									
Fur	New Moon the 18th day, at 4'fn the afternoon. 16 18 26 First Quarter the 25th day; at 8 at night: 21 17 27									
-	1 26 17 27									
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$\mathbf{D} \mathbf{D}$			gitude (and Weather		
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6 T	Faith.	14	8 8 I	6 22		17				
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19 M		27	7m51	5 a 29	8		20			
zo T	,		22 21	6, 10		4	21	0.		
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22 F		1	20 8 31522	7 51 8 52	10 10		22			
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27 T	C. C	5	22 57		12					
28 T	St.Sim.&Jude		4 × 51	2 15				Rough and windy, to		
30 F	!	8	28 34		14					
3118	<i>i</i>		10730		14	17	2-	wards helf nd		
					<u> </u>					

Thus 'tis with us; first Spring appears,	
And soon Lite's Summer's past :	_
Next Autumn in declining Years.	
Rings Winser in at fall.	
Decrepid Age comes on and calls alond.	
Decrepid Age comes on and calls alond. To bring the Wretch a Coffin and a Shroud	I.

,	;	D	ecr	epid	Age comes on and calls alond, the Wretch a Coffin and a Shroud.
بنيا	• •				the Witten a Command a Shious.
		riies			The state of the fact of the first of the first
D	Þ	J)	þ	m	OBSERVAIT TO ME
_	7	=	-		Of the lease City of Bidle and any Sufference
1	۶	14	5	. 46	Of the largest Size of Birds we may justly sec- kon the Offrich, the Cassoware, and the Contour of
	6	116	9.	44	Peru, which is a Bird of that Magnitude, Strength,
_3	6	,18		42	and Appetite, that it will feize not only Shoep and
D	1.	20	-	40	leffer Cattle, but langer ones likewife, and even
5 6	6	22	1-	38	Children.
6	6	1 2.4		36	A Bird of this Kind measured fixteen Feet from
7	6	26	5	34	Wing to Wing extended; the chief Feather in the
8	0	2,8		32	Wing was two Feet four Inches long the Quill
9	6	29	5	31	Part was five Inches three Quarters in Length, and
Ιco	6	. 3 1	15	29	one Inch and a Half about in the Thickest Part;
D.	•	33		27	Half, and was of a Brown Colour. Nature has de-
	6	35	5	25	nied these Creatures the Falons which she has given!
13	6.	37	5	. 23	to the Eagle; their Feet being tipped with Claves
14	6	. 39	5.	21	like a Hen; their Beak is however ftrong enough
115	6	.41	15	19	to tear off the Hide, or rip up the Belly of an Ox; two of them will attempt a Cow or a' Bull,
116	6	43	5	17	and despur him. They have affaulted Boys of ten
117	6	45	5	15	
D	6	47		13	Black and White, like a Magpye: they have on the
119	6	49	15	.11	Fore Part of their Heads a Comb, in the Form of a
20	6	51	5	9	Razor: when they alight from the Air, the Flutter- ing of their Wings is allowithing.—These, as they
	6	5.3	15	Ż	are the most pernicious of Birds, fo they are the
21	16	55	15	5	most rare, just enow to keep up the Species, but not
23	3 6	56	5	. 4	to overcharge the world. I hus, the balance of the
124	16	58	3 5	2	
D	17		15	C	Increase of all Animals, and the Length of their
20	7		4	58	Lives, the World through Ages is stored, but not
	7/7	4	14	56	overtockeg.
	7		54	54	
	9/7	1	34	5 2	
	97		94	51	
	17		1 4	49	

	Ful	Moon the 2d	da	v. at m	dnight.	(Aa	is	Wei	bi 1 17 2 6 17
	Laf	t Quarter the	btl	day, a	10 in t	he	mo	min	ng. 11 17 2
-	Ne	w Moon the 1	7th	day, at	3 in the	m	orn	ing	16 17 3
1	Fir	ft Quarter the	24t	h day,	at 4 in 1	he	afte	ern	oon. 21 17
		Changes pie	//	1000	E 17 100	Ch Street	(1)	3 28 1	26 17
	W	Remarkable	0		D rifes		2	ğ	Mut. Afpec
D	D	Days, &c.	m	gitude	and fets	12	1	m	and Weathe
	7	20 S. 2ft. Tr.	-	22 Y 32	- m 40	17	1	-	All Saints
			11	4842	Drifes	12	20	13	AllSoul. A To
		Prs. Sophia b.		17 3		16	21	16	D & &
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12		A. J. V. L 1 .	21	1 1		20		7	and wet.
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	M	23 S. aft. Tr.		110		21	1 /		Machutus
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1		indicate a call		24 8		23		10	00415
		24S.aft. Trin.	1			1 -			Cecilia. O.Mar
		St. Clement.	2	18 59		24			
4		ed yvan rruppear	3	1 × 2	morn	24	16	13	with Rain o
		D. of Glou, b.		12 57	0 0	25	17	14	Catherine.
6	-	ade of Late Th		24 48	1 4	25	18	16	ΔħΦ
7		Dirbason Should in	6		2 7	25	19	17	Snow at the
		M c.T ends.		18 38		26			165 182
9		Advent Sun. St. Andrew.	8	0845	4 16	26 26	22	19	End.

Our Friends around us mourning stand,
And wet is ev'ry Eye:
They take us by the death-cold Hand,
And hear our parting Sigh;
Anon th' officious Sexton tolls our Boll;
Anon he digs our Grave; and World farewell.

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OBSERVATIONS.

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Speak we next of Quadrupeds. Those who have been curious in examining the Wonders of the Creation, inform us of no less than one Hundred and Fifty entire and different Kind of Beasts, or Four-footed Creatures.

Among all these of various Shapes and Sizes, from the largest to the most minute, we find the most curious Mechanism. And the Surface of the Earth is covered with different Soils, with Hills, Vales, &c. so all these have their animal inhabitants, whose Organs of Life and Action are manifestly adapted to such Places and Things, and whose Food and Physic, and every other Convenience of Life is to be met with at the Place it is destined to inhabit; we here observe too, that not only the temperate Climates have their Beasts suitable to theirs, every one of which has a Sagacity suitable to the Station in which it is fixed, and a Body which delights in the Clime wherein it is placed.

Of Infects we might speak with wonderful Agonation to the great Creator of all where, neither Birds nor Beafts could exist, how many of these of various Kinds sind a comfortable Habitation. Those who have made Microscopical Observations on the Infect Part of the Creation, have observed by the help of Glasses, that stagnated Waters appearing of divers Colours, proceeds from Insects of several Colours, and different Kinds. Nor is the Earth, or Air itself, free from the Seeds of Life. The surprizing Minuteness of some of these exceeds Cornocostion, and the Mechanism of such dimensitive Bodies cannot be considered without Assonishment.

Let

80		DECEMI	3E	R het	h xxxi	I,) 3 y	8.	D X 17	
1	Full Moon the 2d day, at 5 in the afternoon. Last Quarter the 9th day, at 6 in the afternoon. New Moon the 16th day, at 5 in the afternoon. First Quarter the 24th day, at 1 in the afternoon. 21 17 26 17									
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Yet Hope, which fotten'd every Pain, Through all our Labours peit ? Still does that Bleffing, Hope remain, Nor leaves, us at the last.

Hope ev'n'in Death presents us fresh Supplies; And points a Heav'n of Blis beyond the Skies.

M. Oriles O fets Dh mh

OBSERVATIONS.

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Let us next turn our Eyes to the Aquatic Species, and there behold an Element in which neither Man nor Beaft could exist, furnished with innumerable Inhabitants of all Dimensions, who could no more live in Air, then we in Water.

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As these Creatures destroy one another, Provision is made for this by their prodigious Multiplication; fo that what is deffroyed is far inferior to their Increase: an Inftance of which is, that many Hundredt of Ships are yearly employed on the Bank of Newfoundland in the taking of Cod; these generally carry away about 20,000 each 3 yet although this vast Consumption has been yearly made for about, 200 Years, yet the same Plenty still continues.

It is not a little furprising that those Creatures, who live in a Liquid fo falt as the See is, should therein fill preserve their Freshness.

The Hand of Providence is wonderfully seen in conducting those most for our use, near to our Coaste, or up dur Rivers, while others which are useless or perhaps dangerous affect Remoteneis.

Whoever seriously reflects upon these Things, must acknowledge that the Universe in all its Parts declares its Omnipotent Author; and fay with the Poet,

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> "Across the Waves, around the Sky. "There's not a Spot, or deep, or high, "Where the Creator has not trod,

53 3 288 54 6 29'8 54

"And left the Footsteps of a God."

6 3. 308 54 31'8 55

ΟŦ

Of the ECLIPSES and other PHENOMENA in the prefent Year 1789.

TTHIN the Circuit of the present Year, the Two great Luminaries will each of them be twice eclipsed; of which Defects only one will be visible to the Inhabitants of this Isle. However, taking them in order as they shall happen, we shall begin with the First, which is of the Moon and will happen on Saturday the ninth Day of May, as follows:

Beginning May o, 8 Hours 38 Min, 1 Mane.

Middle 9 31 End 10 24 Total Duration 1 46

Digits eclipsed 2 Deg. 54 Min. of D's Northern Limb.

Although this Eclipse be invisible to us, yet it will be visible to the Western Parts of North and South America, and the Whole will be seen at the Philippine, Sandwich, and Friendty

Illands, New Holland, Japan, &c.

The Second will be an Eclipse of the Sun, and will happen on Sunday the 24th Day of May, at 20' past 10 at Night, and cansequently will be invisible to us. However, at 10h. 18min. the Sun will be centrally eclipsed on the Meridian, in Long. 154 Deg. 29 Min. West, and Lat. 12 Deg. 25 Min. South.

The Third will be a visible Eclipse of the Moon, as follows:



Begining Nov. 2, at 11 H. 27 M. Night.
Middle Nov. 3, at 0 32 Morn.
End Nov. 3, at 1 36 Morn.
Total Duration 2 0
Digits celipfed 3 Deg. 40 Min. on
South Limb.
See the Type in the Margin.

The abovementioned Eclipse will be visible to the Inhabitairts of both Burope and Africa, as also to the Western Parts of Asia, and the Eastern Parts of America, and in Part in China and Chinese Tavtasy, but with them the Moon will set before the Eclipse is over.

The Pourth, and Last Eclipse will be of the Sun, and will happen on Tuesday the 17th Day of November, at 3 Hours 20 Min. in the Morning, and consequently will be invisible to us. It however will be a central one on the Meridian, at 3 Hours 22 Min. in Long. 129 Deg. 32 Min. East, and North Last, 20 Deg. 45 Min. and will therefore be seen by the Inhabitants of Thina, Japan, and the Eastern Parts of Tartary in Asia.

The next Phanomenon that will this Year attract the Attention of every Votary of the Divine Urania, is a remarkable Transit of the Planet Melcury over the Face of the Sun. This will, according to the Best Astronomical Tables, happen as follows:

Ingeefs o

Ingeefs or Beginning Nav. 5th 1 h, 10 m. P. M.

Ecliptic Conjunction 3 30

Middle of the Transit 3 37

Sun fets 4 40

Control Egress or End 6 4

Total Duration 4 54

For further Hustration see the Type in the Margin.

The next Thing I shall mention, which will, when it happens, engage the Attention of the Corious, is the expected Return of a Comet late in the Year 1788, or early in that of 1789, and at the furthest before the Commencement of May. As Astronomers have in general agreed, that the Comets of 1522 and 1661 were the same, its Return in 1789 is rationally expected, especially as the Comet in 1521, 1607, and 1682, according to Dr. Halley's Prediction in his Symphy Astronomic Cometica, punctually returned in the Year 1789. As this Doctrine of Cometica is not yet established, for want of a sufficient Quantity of just Astronomical Observations, I shall conclude with the Observation of one of our best modern Astronomers upon the Subiect before as.

If (fays he,) it should come to its Perihelium on the 1st of January 1789, it might probably be visible with a good Achronic Telescope in its Descent to the Sun; the Middle of Segreture 1788; and sooner or later, according as its Perihelium

is footier or later.

Is will approach us from the Southern Parts of its Orbit, and therefore will appear with confiderable South Latitude and South Declination, fo that Persons reliting near the Equator, or in Southern Latitude, will innean Opportunity of discovering it before us. And stowers much to be defired, that it might first he feet by good Administration fieth a Struction, and surnished with proper Instruments for fettling its Place in the Heavens, the earliest good Observations being the most valuable for determining its Elliptic Orbit, and proving its Identity with the Comets of 1532 and, 1661. For this Purpose the Cape of Good Hope is recommended as an excellent Situation.

This being a Subject that has employed the Pens of the greatest Foets and Philosophers, and indeed the Thoughts of every Child of Genius and Fancy, I shall here introduce, from the

best Writers both in Profe and Verse, what I imagine may be either for the Improvement or Attuitement of my kind Readers.

Comets were till of late ever looked upon as Forerunners of Divine Wrath, and the Messengers of Heaven's Displicature; thus we find in Homer.

"As the Red Comet from Saturnur fent, a

44 To fright the Nations with a dire Portent

44 (A fatal Sign to Armies on the Plain, 44 Or trembling Sailors on the wat'ry Main.)

"With sweeping Glories glides along in Air, "And shakes the Sparkles from his blazing Elair:"

And again in Virgil:

"The threat'ning Comets when by Night they rife, Shoot fanguine Streams, and sadden all the Skies.

True Philosophy however has found that Comets are opake, spherical, and solid Bodies, of a very solid, compact and durable Substance, capable of the greatest Degree of Heat and Cold without Dissolution; shining like other Planets by Resection of the Sun-beams, performing their Revolutions about the Sun in elliptical Orbits, and at stated Periods, having that Luminary in one of their Foci.

Nay, even in the Days of Ignorance before mentioned, we find the great Seneca, fuperior to the Infatuation of the Age, thus expressing himself: "I cannot (says that great Man) agree with our Philosophers, nor think the Comets are Fires suddenly kindled, which appear awhile and are then extinguished; but "I reckon them among the eternal Works of Nature. And "why should we wonder that Comets (such a rare Spectacle and the World.) should not yet be restricted by certain Laws; not have the Times of their Appearance or Disappearance knows, "as they take their Course through such produgious Intervals of Space.—The, Time will come when a Day shall bring to "Lights and the Diligence of a suture Age discover, those "Things which now lie bid."

"The Time will come in which Pollerity will wonder that time were ignorate of Things to very plain.—A Person shall see one Day arise, who shall demonstrate into what Regions the Comets wander; why they move so separately from the Rek of the Planets; and how large and of what Kind of Bodies shey are."

The gloomy Ideas of the Ancients, and the bright Conceptions of the modern Philosophers upon this Subject, were never better contrasted than in the following sublime and beautiful Lines of the truly ingenious Thomson upon this Subject. Lo I from the dread Immensity of Space Returning with accelerated Counter

The ruthing Comes to the Sun descende; And as he links below the shading Besth;

With awful Train projecting o'er the Heav'ns,

The guilty Nations tremble.—But, above Thole superfittions Horrors that enflave

The fond sequectous Herd, to mystic Faith And blind Amazement prone, th' enlighten'd Few,

Whose godlike minds Philosophy exalts,
The glorious Stranger hail. They feel a Joy

Divinely great; they in their Pow'rs exult,
That wond'rous Pow'r of Thought, which mounting, fourers

This dusky Spot, and measures all the Sky.

While, from his far Excursion through the Wilds
Of barren Ether, faithful to its Time,

They see the blazing Wonder rise anew.

In seeming Terror clad, but kindly bent
To work the Will of all sustaining Love:
From his huge vap'ry Train perhaps to shakes

Reviving Moisture on the num'rous Orbs,

Thro' which his long Ellipfis winds; perhaps.
To lend new Fuel to declining Suns,

To light up Worlds, and feed th' eternal Fire."

It has been observed that the Eccentricity of the Orbits of Comets is so amazing great, that some of them have been observed to person the greatest Part of their Motion nearly in a right Line, both in their Approach to the Sun, and in their Retreat from it, when they appear as if they were hastening back to the fixed Stars, till they are out of our Sight, and return not till after a Period of many Years.

In their Approach to the Snn, their Motion is continually accelerating; for they describe equal Areas in equal. Times about its Center, as do the Planets. Hence, when they are at their least Distance from the Sun, their Motion is immensely swifter than when they are at their greatest Distance; and this will account for their being yisible to us for so short. Time; and having once disappeared, their being so long before they come again within human Ken. And however the Ancients might differ in Opinion, some considering the Comes, as wandering Stars, others as Meteors kindled in the Atmosphere, substitute for a Time, and then dissipated, while the Generality considered them as ominous Prodigies; it is now beyond all Doubt, from the more accurate Observations of late Astronomers, that they are a Kind of Planets. That they are not Meteors is evident, for if they were, they could not possibly bear that intense Heat

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which some of them in their hearth Approach must receive from the Sun; that of 1680 being within which Part the the Son's Diameter from sa Surface, andreonfequently muft have ucquired a Degree of Hens heyond our Conception. Lastly, what we call the Tail of the Comet, is a prodigious Quantity of Fume and Vapour, flying off from the Badgnof the Contet as it becomes more and more heated in its Appeach to the Sun. They appear largest and wost builliant inhimediately after their Return from the Sun; being then the hottest, and emitting the greatest Quantity of Vapout. The Tail slave lies towards there Parts which the Body of the Comet Jenses in its Destroy! It is prears broader in its soper Part them near the Head of the Comet, which is alluagreeable to the Matere of Smoke and Vapours. As a Proof that the Tail of in Comes is sifine pellucid Vapour, the fixed Stays have been foon changh them. Laftly, the Tails, of Comets are amazingly long, fome having been combuted in Length to be not less than 80,000,000 of Miles.

The ingenious Mr. Rowning observes that, as to those Phenomena which arise from the indiction of the Barth, they agree in a great Mcalere with those of the Planets. For instance, those Comets that move according to the Order of the Signs, little before they, disppear, becomes more than ordinary flow or retrograde, if the Barth at that Thine be between them and the Sun; but these dedinary swifts it she Barth be on the opposite Side; and the Reverse of this happens to those who move contrary to the Order of the Signs. This is occasioned by the Motion of the Earth for when the Earth goes the same Way with the Comets, but with a swifter Motion, the Comet's appearare-irograde; when with a sowier Motion, the Comet's apparent Motion becomes slower; and when the Earth moves the con-

trary Way, it becomes swifter.

The Particular in which Comets differ from the Planets, are is follows. They move in various Directions, fome the same Way with the Planets, others the contrary, neither are their Motions confined within the Zoniac, their Orbits admitting of any Inclination to the Ecliptic whatever.

The fillie worthy Gentleman, in a Note annexed, gives a Method by Which Aftronomers may investigate the apparent Course of a Comet, with which I shall close this Account.

They oblette what two Stars are directly one on one Side the Comes and the other on the other, which is done by holding his Thread policies the Eye and the two Stars, and extending with fifth a Magnerthat it shall feem to cross each Star: Then they look on two other Stars in the Storicon also, that the Comes that postering a Line that passes from one to the other. They then extend a Thread on the Celestial Globe over the two first

first Stars, and another over the two last a and the Point of the Globe where the Threads profe each other, is the apparent Place of the Comet at the Time of Observation? "And by doing this daily they trace is apparent Course in the Heavens."

I shall now, according to my afual Method, make some sew Observations upon the sour Quarters; and then proceed to the

Enigmatical Part of the my appeal Performance.

THE WINTER QUARTER

This Quarter takes its Commencement at the Sun's Ingrafa into Capricorn, which will this Year beam the look Day of December, at 2h. 14 min. in the Morning. Having now touched his utmost fouthern Limit, he gives the shortest Day and longest Night to the Inhabitants on this Side the Equators.

And while the fouthern Lands betteath him burn, The shiving North implome his kind Return.

The Year is ushered in with some disagreeable Aspects, whose Effects will be selt both in Public and Private. As to public Affairs; much Debate and Consultations among the Senates of various Reasons, with very fittle Determination. It is the Bleffing of Poverty that it brings Peace; but it is the Cusse of Peace that it is attended by Poverty. As to private Affairs, I shall only say.

Youth beware, Age look to thryfelf? Celum tad not speciat, Cælum speciemus oportet, nam Deus Afra dedit Cælo, gculofque tibi.



Of the SPRING QUARTER.

" Conquer'd with fost and pleasing Charms, "And never-failing Vows of her Return,

" Winter unlocks his frofty Asms,

"To free the joyful Spring;
"Which for fresh Loves with youthful Heat does burn;

"Warm South Winds court her, and with fruitful Show'rs, "! Awake the drowly Flow'rs,

Who hafte, and all their Sweetness bring

" To pay their yearly Offering.

" No nipping White is feen, " But all the Fields are clad in pleasant Green,

" And only fragrant Dews now fall;

" The Ox forfakes his once warm Stall, "To balk i'th' Sun's much warmer Beams:

"The Plowman leaves his Fire and his Sleep, . "Well-pleas'd to whiftle to his lab'ring Teams;

"While the glad Shepherd pipes to's frisking Sheep.

" Nay, tempted by the smiling Sky, " Wreck'd Merchants quit the Shore;

" Resolving once again to try " The Wind and Sea's almighty Pow'r,

" Chufing much rather to be dead than poor.

"Upon the flow'ry Plains,

" Or under flidy Trees,

"The Shepherdelles and their Swains,

" Dance to their rural Harmonies;

"Then feal in private to their covert Groves, There huish their well-heighten'd Loves.

Horace, Lib, I. Ode 4.

On the 20th Day of March, at 33 Min. past three in the Morning, the bright God of Day enters the Celestial Aries; and eroffing the Equator, gives once more equal Day and Night; and from hence we date the Spring Quarter. The Scheme of the Heavens at this Ingress we hope we have given with the greatest Accuracy. Those who please to examine the Planetary Aspects, at the Commencement of this Scason, will find some very favourable ones. They will moreover perceive in the annexed Scheme that Sagittary is upon the Medium Coli, and 27 Deg. 10 Min. of Capricornus ascend; moreover, all the Planets, excepting the Moon, are ful Terra. Those who are curious in this Art, will from the above Scheme judge for themselves. Those who despise it will undoubtedly turn over the Leaf; it is however surprising (says an ingenious Author)

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that the World has not arrived at a greater Improvement towards the Knowledge of the Nature of the Stars, as they have of their Motions; which has been wonderfully improved, while the other has been as much neglected. If any of our Readers, however, though unfailed in the Science, should want Information, I beg leave to tell them, that the Papers of the Year 1789, will inform them of several Things which in 1788, they never expected.

Of the SUMMER QUARTER.

On the 21st Day of June at 1 Hour 55 Min. mans, the Sun enters upon the first Degree of Cancer, having now made his highest Advances toward the Northern Pole; and giving us the Longest Day and Shortest Night, or admitted I wilight, no Night at all. And here commences our Summer Quarter.—The Variety of Aspects in this Quarter and the next forted a busy World, and the Seeds of grand Mutations are growing apace. Perhaps some of Daniel's Prophecies are about being accomplished; but of that I only conjecture, and proceed to

The AUTUMNAL QUARTER

This Quarter commences upon the Sun's first Entrance upon the Coelestial Balance Libra, which happens on the 22d Day of September, at 3 Hours 28 Min, in the Afternoon. As to the Article of Prognoffication, much may be said, but little is to be depended upon. If any cry Peace, Peace, let them know, There is no Peace, faith my God, to the Wicked , And the Lord knows that the best of us are bad enough. We have seen in our Day unexpected Revolutions; our Successors will see more; a Hint is enough; for to tell when, how, or what, is more Arrogance than I pretend to. Many Readers are too fond of the Wonderful; and many Pretenders to the Astrologic Art, too ready to oblige them, to the Discredit of the Profession, and at the Expence of Trush; and there will never be wanting Rogues to fell a Pack of Lies, while there are Fools to buy them. And he who goes to the pretended Conjurors for Advice, is no Conjuror himself, I assure him. It was well said by a learned Gentleman.

"The Stars that in their Confes roll "Have much Instruction giv'n."

To which I think any one may fafely reply.

Howe'er that he, it's not for me ... To fetch down News from Heav'n.

Unfearchable are the Ways of the Lord, and his Doings with Men are past finding out. He changeth the Times and the Sea-

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fons; he removeth Kings, and fatterly up Kingar; but are wo of his Councils? If we at an humble Distance behold his Wonders in the Heavens, and by the Experience of former Ages are enabled to take a glimmering View into the Regions of Obscurity, it is as much as any but the Deceiver, or the vain-glorious Boaster, will pretend to.

If more is offer'd, as a Lie receive it; It ne'er can do you harm till you believe it:

The Answers to the ENIGMAS, &c. in our last are

sit Enigma, a Watering-Pan	led. Lies
ad. A Pair of Scales	2d. Rage
	4th. Nothing
4th. A Blush	it. Charade, Buckthorn
5th. An As	2d. Sonnet
oth. A Shade 7th. A Shepherd 1st Rebus, Ewe	3d. Mile-Hone 4th. Horfe-shoe 5th. Grave stone.

A concile Answer to all the Enigmas, by Mr. J. Ward, of Hinckley.

Of Shepherds, Blushes, Warring-Paus, and Shade, 7, 4, 1, 6 Scales, Beards, and Affes are th' Enigmas made. 4, 2, 5

All the Enigmas answer'd by Mr. John Needham, of Hinckley.

In fam'd Hinckley Town is my Cot,
Though it does not appear Alamode
In the Scale of the Great; though my Lot
Is not in Prosperity's Road.

I take Nature's Law for my Guide,
With no filly Affes I stray;
And 'gainst Penury's Pangs to provide,
I honestly labour all Day.
While the Vot'ries of Racchus carouse,
In the Shade at the Close of the Day;

With my Wai'ring Ban fetch'd from my House I hie to my Garden away.

What though fickle Fortune has fent

What though fickle Fortune has left No Titles, nor rich furnish d'Hall, I live in my Station content, And I praise the great Shepherd of all.

And

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inigate details and inigate the stage of the	154
And each #Inding Maching & pray, and said That in fuch for that Blown may be found,	4
That with Age, when my Read ingrown grey, I may live down my Life with Continue	3
A general Answer to the same by Mr. G. Knapp, Norwici	ì.
Stern Winter gone, behald the Sun Doth Shepherd's Joys advance; And Beard less Boys express their Joys, With Blufbing Maids to dance.	7 3 4
Say where's the Afs, who would not pass, In fome fequetter'd Shade; Where Love won't fail to turn the Scale, With fome reluctant Maid.	56
His Hours to sweet, while at her Feet, Flora her Flowers flings, Where Aid of Man, or Wat ring Pan, Alas, I are useless Things.	*
The fame answer'd by Md. E. Davies Chuschille ft	· .
At close of Day, in By nings hot, Then comes in use the West ring-Pos. Who e'er paints Justice, never fails	1
To grace her with a Pair of Scales. The hoary Head, and sevend Beard; He by Blub-ing Youth should be revered. He who in low ring lets Life pass.	3 4
Is sure more stupid than an As. For weary, Age the Grave's a Shade; And this is all the Shepherd said To Cloe; who so prove ther Man, fir, To beafon's Riddler sield an Answer,	5 7
A general Antimes by Mr. R. D. Churchill, in a Foem entit	led
A Farennel sto Felly.	
Adieu ye vain and loofe Delights, Blub, Mortals, arabe reviling Nights; By which full often, Man, alas I a metamorphos d to an As.	4 5
Nighe's Shade, to cover Sin, is chale.	U

Night's Shade, 10 cover Sin, is choic,
But oh! on this no more repole.

Darknels,

Enigmas and Robustes answered. Season:

Darkness, 'tis true, from mortal Ryes, Screens Murders, Thests, Adulteries. But he who balances this Bell, That high Supreme who governs all, The Shepberd great, who never sleeps, A dreadful Book of reck'ning keeps. These Things consider well before With Age thy Beard is sliver'd ver. And let thy Tenrs for each ill Deed, Those of the Water-Pet exceed. So may'st thom hope to find on high, A Seat of bliss, beyond the Sky.

All the Enigmas answered in Gaster and Grace, a Tale by Poor Robin.

Gaffer and Grace sat in the Chimney Nook, He with his Pipe;—fhe poring o'er a Book. At last, quoth puzzled Grace, Ive got a Pack Of Riddles here in Season's Almanack. Can you explain them? "Yes, fays he, I can." And what's the First ?-Why it's a Wat'ring-Pan. And what's the Second ?-Lord (faid he) what ails Your foolish Head t-Why it's a Pair of Scales. Well, whar's the Fourth then !- Guffer answer'd-hush, Nought that you're guilty of ;-it is a Blash. And what's the Fifth !-Quoth Gaffer, let that pais. What don't you know your Kinsfolk !- Tie an Ass. But what's the Sixth, and Seventh !-- Why, (Gaffer faid) The Seventh's a Shipberd, and the Sixth a Shade. Yet here's the Third, quoth Grace, we have to feek, Here Gaffer rub'd his Chin 'gainst Grace's Cheek; Grace squall'd aloud, and ery'd I hate such Tricks, Your ugly Beard (plague on it) how it pricks: How could you serve me so, you stupid Elf? . Blood! Grace, said he, -You've found that out yourselfe

The Rebuffer answer'd by Candidus.

Of Rebusses I think you had but Four, Ews, Lies, Rage, Nothing, all their Names explore.

The Charades answered by Mr. J. Ward, Hinckley,

Behold the Buckthern, Sinnet, Hersches ton, With Grave, and Milester, beings them all to View.

The Rebusses and Charades, answered by Mr. John Needham, Hinckley.

Rage shall Nothing trouble me,

3, 4 Reb.

1'll read your Sounet o'er;

2 Cha.

While Life remains I'll careful be,

To tell vain Lies no more.

2 Reb.

Of Horse-hoe, Mile-stone, Thorn, or Ews, 4, 3, 1 Ch. 1 R.
The Tales no more I'll prize;
The Grave-stone shall inform me true,
The Way to be more wise.

5 Cha.

Quere First, answered by Mr. J. Needham, Hinckley. And-Mr. Peter Fidler.

Dieu et mon Broit, i. e. God and my Right, was first used as a Motto by Richard the First, on a Victory over the French in the Year 1104. But more probably by Edward the Third, laying Claim to France; for Charles his Mother's Brother dying, Philip of Valois had possessed himself of the Kingdom, alledging the falique Law; but Edward afferted that this Law, in excluding Females, did not exclude their Male Issue from the Succession, and on this he grounded his Title; his said Campaign was without Bloodshed, but he took the Title of King of France, and quarters his Arms with the Fleurs de lis adding the Motto Dieu et man Droit.

In like Manner it was answered by Mr. G. Knapp, and J. Ward, Hinckley.

Quere Second, answered by Mr. J. Ward, Hinckley.

A great Number of watery Particles arise from our Respiration, or Perspiration in Rooms, especially where Persons are affembled together; these evidently float, and come into contact with the Glass; here the Coldness of the external Air condenses the internal watery Particles into a Hoar Frost, while the Outside is free.

This was answered in like Manner by Mr. J. Needham, and

Third Quere, answered by Mr. J. Needham, Hinckley.



Within the Scheme annex'd you'll fee, How five Trees planted there may be; And at point A, you may protest .You're equidistant from the Reit.

Mr. J. Ward, Hinckley, answered it in the same Way.

New ENIGMAS for the Year 2789.

First Enigms, by Mr. J. G. Nottingham.

Though I'm always in Prace. I am present in Strife, And the ever in Death, I am always in Life.

Though no Drunkard I am, yet in Wins I delight, I'm pleas'd too in Aie; but in Liquors not tight.

I am never on Land, but in th' Midst of the Sea.

Now tell me ye Bards what my Name it must be.

Second Enigma, by Mr. G. Knapp.

I'm composid of a I coth, right uniform made,
"Without eler a Member, without eler a field."

Like a Maspie you'll find I am black mix'd with white,
And about me two Brothers are ready to Fight.

But hold, Sira, I think I have told you too much,
Ileav'n grant that my Follon you never may touch.

Third Enigms, by Mr. T. Greenlees.

A num rous Race we may be feen,
Of boing I declare;
Well known to our good King and Queen,
And many a gentle Fair.

You may us there behold;
You may us there behold;
But frequently we're very nest,
And often cladin Gold.

A many. Things of which we're made.
Come from old Mother Birth;
Rur Man, our Parent, it is faid,
Is known to give us Birth.

But though we're often drefs'd in Gold,
We fomenines Silves wesn.
And offestimes we very hold;
In Black and White appear.

Fourth Enigma, by Mr. Peter Fidler, near Bolfover.

Trophy of Honour, Oh! ye Sons of Mars, I gild your Victories acquired in Wars; For when detained in Actions great and brave, Aloft in Air triumphantly I wave, And fhine resplendent in my Country's Cause, True to its Maxims, loyal to its Laws, In Shape I'm various, and in Colour too, My different Parts assume a different Hue. Singly to every Country Lam known; But in Old Bngland, two in one I'm shewn. The Boast her Sons, with Honour hold my Right, And bold like me, be Valiant in the Fight; So great's my Use. Now, Heroes, tell my Name, From what I've said, and then rehearse my Fame.

Fifth Enigma; by Mr. Bryan Waudby, Goodmanham.

First know I liv'd a many Ages past, And to my Master I was bound full fast. He being dead, no Life I then must have, Because I only liv'd to be his Slave: But quite unnotic'd, unobserv'd I lay Till, strange to tell, upon a certain Day, By Row'r impell'd, straight up again I rose, And spread Destruction mong surrounding Foes. Deaf to their Cries, and fearless to their Rage, I shew'd no Mercy, spar'd nor Youth nor Age: I had a Partner, who, as Records fay, His Bos'ness done, he caft his Friend away. But great was my Good-nature you may think. For after all I made my Partnerdrink! " ?! ! ... But now I only ale (to spread my Fame,). Diarian Bards, pray tell the World my Name.

Sixth Enigme, by Mr. John Ward, Hinckley.

Ye findious Gents, who chuse to give my Name, Geometry consult to know my Frame. The which is sometimes oblong, square, or round; Four Feet I have which never walk the Ground. My Canepy is strew'd with fragrant Flow'rs, A Fountain cool likewise adorns my Bow'rs. And oft you'll find, to beautify the Scene, Just in the Center stands a lovely Green. But what avails the Beauty, or the Cost, Vain is the Whole, asas' when Freedom's lok. But hold, I only add that you may see A Safeguard, and a Prison, both in me.

New REBUSES, QUERIES, CHARADES, &c... to be answered in our Next.

Quere First, by Mr. Knapp.

What is the meaning of the Motto in the Coronet of the Prince of Wales, ICH DIEN, and why was it inferted?

Quere Second, by Mr. Obrien Waudby.

Pray what's the Reason, tell to me, Why do we find in stirring Tea, The Spoon seems bent unto our View? Which though off seen, is know to sew.

Quere Third, by R. D. Churchill.

Ye Bards who've long in Season fung, 'Tell me from whence the Custom sprung, That we should Eastward turn with Speed, When we repeat th' Apostle's Creed?

Quere Fourth, by Mr. Needham, Hinckley.

When, or by whom, and on what Account, was the Title of Defender of the Faith, added to that of King of Great Britain, kc. !

Quere

Quere Fifth, by the fame.

What was the Value of the Thirty Pieces of Silver, which the Jews gave Judgs to betray his Lord and Master ?

Quere Sixth, by Mr. T. D. Chuschill.

As Custom goes, you see we find, In the Interment of Mankind, That they the East do always face; I wish you would a Reason trace.

First Rebus, by Mr. T. Greenlees.

Two Thirds of a grave Bishop's Robe, When join'd to the Place where I live, Between the Hills in a High-road, The Rebus's Answer will give.

Second Rebus, by Mr. J. Ward, Hinckley.

I'm feen distinctly with a Microscopic Eye; And when transpord all Things on Earth I do destroy.

The following by Mr. P. Fidler, near Bolfover.

Anagram. A Mineral if right transpos'd will show A Measure which all English People know.

Rebus. Reverse a Measure it will tell. A Fruit we all know very well.

Paradox. One Day resolved a Paradox to make,
I four from fix most certainly did take;
Five times eleven, I found was left me then,
And now the Method shew, kind Gentlemen.

First Charade, by Mr. J. Needham, Hinckley.

My lift comes from Fire, now pray mind what I say; And it goes towards Heaven through a dark difmal Way. My fecond's a Name that is well known to John;
So far my Charade has gone pretty well on.
And new if to mife of my third you're afraid,
Go into the kitchen, and queltion the Maid.

Second Charade, by Random Shandy.

My first is not old, and my second's not new; My third brings a beautiful Town to your view.

The Author once more presents his humble Thanks to all his kind Contributors, and bogs that in Fature whatever they please to savour him with, they will give an Answer with it, otherwise it cannot be inserted.

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grafick likewit have green a second

Angle Commenced Commenced

'Ολύμπια Δώματα.

OR, AN

ALMANACK

For the YEAR of

Our Lord God, 1789;

Being the First after

BISSEXTILE, or LEAP-YEAR,

And from the World's Creation, 5793.

Wherein are Contained the Lunations, Conjunctions, Aspects, and Effects of the Planets; the Increase, Decrease, and Length of the Days and Nights; with the Rising, Southing, and Setting of the Planets and fixed Stars throughout the Year; whereby may be known the exact Hour of the Night at all Times, when either the Moon or Stars are seen.

Calculated according to Art, and referred to the Horizon of the ancient and renowned Borough Town of Stamford (formerly a famous University) whole Latitude is 52 Deg. 20 Min. fitting all the middle fatitude of ENGLAND, and, without fensible whole Kingdom.

Non est e Terris mollis ad Asta Vin.

By TYCHO WING, Philomath.

LOND'ON:

Printed for the COMPANY of STATIONERS,
And fold by ROBERT HORSFIELD, at their Hall, in Ludgate-Street.

[Price, stitched, NINE-PENCE.]

2 W	ING 1709.	
Common No T	Es and Moveable F	ASTS.
Dominical Letters	- D Septuagefima	Sund. Feb. 8
Golden Number	. 4 Shrove Sunda	y Feb. 22
Epatt	. 3 Baster Day	- April 12
Cycle of the Sun	- 6 Whit-Sunday	May 31
Roman Indiction	- 7 Trinity Sund:	
Number of Direction	- 22 Advent Sunda	y Nov. 29
A CATALOGUE OF	the Mol Reverend, Ri	oh Revend
and Reverend, this	Archbithops, Bilhops, ar	d Deans, exer-
cifing Ecclefiastical	Jurisdiction in Englan	d. 1780.
Archbishops.	Deans Names.	Sees Names.
Dr. John Moore	Dr. George Horne	Canterbury
Dr. Wm. Markham	Dr. John Fountayne	York .
- Bishops.		
Dr. Beilby Porteus	Bishop Pretymen	Longon
Dr. Thomas Thurlow	Hon. Dr. Wm. Digby	Durham
Hon. Dr. Br. North	Dr. Newton Ogle	Winchester
	Dr. Charles Harward	Chichester
Dr. Charles Moss	Lord Fran. Seymour	Bath & Wells
Dr. Jonathan Shipley	Mr. W. Shipley	St. Afaph
Hon. Dr. S. Barrington	Dr. John Ekins	Salisbury
Dr. John Hinchcliffe	Dr. Charles Tarrant	Peterborough
Hon. Dr. Jamies Yorke	Dr. William Cooke	E.by
Dr. John Thomas	Dr. Thomas Dampier	Rochefter .
Dr. Richard Hurd	Hon. Dr. St. John	Worcester
Dr. John Butler	Dr. Nat. Wetherell	Hereford
Dr. John Ross	Dr. William Buller	Exeter
Dr. John Warren	Dr. Thomas Lloyd	Bangor
Hon. Dr. J. Cornwallis Dr. Samuel Hallifax		Litchf. & Cov.
Dr. Lewis Bagot	Dr. Johah Tucker	Gloncester Norwich
Dr. Richard Watfon	Dr. Philip Lloyd Dr. Adams, Archdeac.	
Dr. Edward Smalwell	Dr. Agains, Archdeac.	Oxford
Dr. Christoph. Wilson	Dr. I Hallam	Briftol
Dr. Wm. Pretyman	Dr. Richard Kaye	Lincoln
	Dr. Jeffery Ekins	Carlife
Dr. William Cleaver	Dr. Cotton	Chefter
	Mr. Wollaston, Prec.	St. David's
	Bishop Thomas	Westminster
Mr. Claudius Crigan	•	Sodor & Man
	Bishop Douglas	Windfor

A TABLE of TERMS and Returns for the Year 1789. HILARY Term begins January 23, ends February 12.

Returns or Esting Days. Returns or Esting Days. In eight Days of St. Hilary - Jan. 20 21 22 23 Friday in fifteen Days of St. Hilary - 27 28 29 30 Friday On the Mor. of the Puris. of the Bl. V. M. Feb. 3 4 5 6 Friday in eight Days of the Puris. of the Bl. V. M. 9 10 11 12 Thursd.
EASTER Term begins April 29, ends May 25. In fifteen Days of Easter April 26 27 28 29 Wedn. From Easter Day in three Weeks - May 3 4 5 6 Wedn. From Easter Day in one Month - 10 11 12 13 Wedn. From Easter Day in five Weeks - 17 18 19 20 Wedn. On the Mor. of the Ascension of the Lord - 22 23 24 25 Mond.
TRINITY Term begins June 12, ends July 1. On the Morrow of the Holy Trinity June 8 9 10 12 Friday In eight Days of the Holy Trinity - 14 15 16 17 Wedn. In fifteen Days of the Holy Trinity - 21 22 23 24 Wedn. From the Day of the Holy Trinity in 3 Weeks 28 29 30 J. I Wedn.
MICHARLMAS Term begins November 6, ends November 28, On the Morrow of All Souls - Nov. 3 4 5 6 Friday On the Morrow of St. Martin - 12 13 14 16 Mond. In eight Days of St. Martin - 18 19 20 21 Saturd. In fifteen Days of St. Martin - 25 26 27 28 Saturd.
N. B. No Sittings in Westminster-Hall on the Second of February, Ascension-day, and Midsummer-day. The Exchequer opens eight Days before any Term begins, except Trinity, before which it opens but Four Days. Note, The first and last Days of every Term, are the first and last Days of Appearance.
The Names of the Learned J U D G R s in the Law. 1. Rt. Hon. Lord Thurlow, Lord High Chancellor. Right Hon. Sir Richard Pepper Arden, Knt. Mafter of the Rolls. 1. In the S Rt. Hon. Lord Kenyon, Lo.d Chief J. Sir Nafh Grofe, Knt. K. Bench. Sir Wm. Henry Athurft, Knt. Fran. Buller, Eq. 111. In the S Rt. Hon. Al. Ld. Loughborough, L. C. J. Sir H. Gould, Knt. Co. Pleas. John Heath, Efq. 11V. In the Sir James Eyre, Knt. L. C. B. Exchequer. Sir James Eyre, Knt. L. C. B. Exchequer. Sir Beaumont Hotham, Knt. Sir Rich. Perryn, Kt. Sir Arch. M Donald, Knt. Att. Gen. Sir John Scott, Knt. Sol. Gen.

The REGAL Table.

The Year, Mont	h. and	Day, w	mei.				Num	ber of	Years
each King and	Queen	n begar	Len	gth of	eacl	ex	pired fince	their	
feign, accountin	g the 1	ear to		Reign.			igns ended.		
gin January 1.			`						
Kings Na es	begar	io re	gn	Y.	M.			King N	
William I.	1065	O&.	14	20	10	26	102	Wiliam	1
William II.	.087	Sept.	9	12	10	24	589	William	2
Henry I.	1100	Aug.	2	35	3 -	29	654	Henry	1
Stephen	135			18	10	24	635	Stephen	
Henry II.	1154	O&.	25	34	8	11	600	Henry	2
Richard I.	189			9	9	Ò	590	Richard	. 3
John	1199	April	6	17	6	13	573	John	
Henry III.	:213			56	0	25	517	Henry	3
Edward I.	1272	Nov.	16	34	7	21	482	Edward	1
Edward H.	1307	July	7.	19	6			Edward	. 2
Edward III.	1327	Jan.	25	50	4	27	4 . 2	Edward	3.
Richard II.	1377	June	21	22	3	8	390	Richard.	2
Henry IV.	1399	Sept.	29	13	5			Henry	4
Henry V.	1413	Mar.	2 C	9	5	1.1	367	Henry	5
Henry VI.	1422	Aug.	31	38	. 6	4	328	Henry	.6
Edward IV.	1461	Mar.	4	22	1	5	306	Edward	4
Edward V.	1483	April	l 9	0	2	13	306	Edward	5
Richard III.	483	June	22	2	2	c	304	Richard	3
Henry VII.	1485	Aug.	22	23	8	0	280	Henry	7
Henry VIII.	1509	April	22	37	. 9	6	242	Henry	8
Edward VI.	1547	Jan.	28	6	5	ફ	236	Edward	6
Q. Mary I.	1553	July	Ĺ	5	4	11	231	Q. Mary	'
Q. Elizabeth	1558	Nov.	17	1+4	4	7	∙ չ6	Q Elizal	beih
James I.	1603	Mar.	24	22	o	3	104	,ames	1
Charles I.	1625	Mar.	27	23	FO.	3	140	Charles	1
Charles II.	1649	Jan.	30	36	0	7	104	Charles	2
James II.	685	leb.	(4	0	7		James	2
Will. 3. & M.	1689	Feb.	13	13	0	23	87	William	3
Q. Anne	702	Mar.	8	1 -	4	24		Q. Anne	. 1
George I.	1714	Aug.	1	12	10	10	62	K. Georg	ge I
George II.	1727	June		33	4	14	20	K. Georg	e 2
George III.	1760	Oa.		(Crown	ed 3	o∻pί	. 22, 76	i.
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The Use of the following TABLE of the Moon's Southing, to find the Time of High-Water, and the Hour of the Night.

I. To find the Time of High-Water in most Parts of E N G L A N D.

Take the Time of the Moon's Southing for the Day proposed, and to that add the Hours and Minutes which stand against the Place required in the following Table of Sea-Coasts, and the Sum will be the Time of High-Water at the Place required on that Day.

· ·		
A Table of the Sea Coasts.	H.	M.
Portsmouth, Queenborough, Southampton,	o	00
Rochester, Winchelsea, Flushing,	0	45
Downs, Gravesend, Ramkins, Guern'ey, -	1	30
Denbeigh, Bell-Isle, Holy-Isle, Downs-Road, -	2	15
London, Tinmouth, Whithy, Hartlepool,	2	00
Scarberough, Berwick, Flushing, Staples,	2	45
Flamborough, Humber, Bridlington-Bay, -	٠.4	30
Plymou h, Ramfay, Newcastle, Severn, -	T 5	15
Lynn, Fofdyke, Hull, Weymouth, Dartmouth, Cross-Keys	. 6	00
Boston, tart-Point, Foulness, Bristol-Key,	6	45
Bridgewater, Milford Haven, Lizard, Wintertown,	7	30
Yarmouth, Isle of Wight, the Needles,	8	15
Isle of Man, Ockney, Pool, South-Foreland, -	g	10
Dover, Harwich, Orfordness, Bullein,	10	10
Rye, Solebay, Margaie-Road,	11	15
	٠.	77

I. To find the Hour of the Night by the Shadow of the Moon on a Sun-Dial.

1. When the Shadow falls precisely on the Hour 12, then the Time of the Moon's Southing, found in the preceding Table is the exact Time of Night. But in other Cases,

.2. If the Shadow wants of 12, fee how much it wants of it; which Time, fubtracted from that of the Moon's Southing, leaves the Time of Night. Note, You must add 12 Hours to the Moon's Southing, if Need be.

3. If the Shadow has past 12, add the Time that it has past it to the Time of the Moon's Southing; the Sum will be the Time of Night required; abating 12 Hours from that

Sum, if Need be.

A TABLE of the Moon's Southing, of excellent Use to

<u> </u>																			
M		muai	y		brua	ry		Aar	ch	Apru				M	y	june			M
D	h	1	m	h		m	h		m	'h		m	h		m	h		m	D
1	3	a	4	4	a	19 6	3 3 4 56	a	5 5 4	4	a	3	5 6	2	27	6	2	52	1
2	4		22	5		6	3		54	5		34	6		21	78		52 43	2
3	4 5 5 6		3 46	4 5 5 6		5: 4 46 45 46	4		45 39			34 30 26	78		13	8		34 25	3
3 4 5 6 7 8	5	4	46	6		4	5		39	7 8	•	26	8		5	9			4
5	6		32	78		46	6		3 5			2 I	8		57	10		20	. 5 . 6
6	7 8	:	21			45	7 8		33	9		15 8	9		49	11		14	6
7	8		14	9		46	8		31	10		8	10		43	'n	101	'n	7 8
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9	10		10	ΙI		43	10		2 5	11		57	n	101	n	1		1	9
ıυ	11	_ 1	13	מ	ori		1 I		20	n	10.	n	0		3 3	1		52 41 27	9 10
11	n	norn	١	0		40		noı		٥		52	1		2	2		41	11
12	0		13	I		34	0		15	I		4.	2		22	3		27	I 2
13	1		11	2		27	1		9	2		43 38	3 4 4 5 6		14	4		10	13
14	2		7	3 4 5 5 6		20	2		59 54 48	3 4 5 6 6		38 31 21	4		4	4 5 6 6		52 33 15 58 43	14
15 16	3		C	4		13	2		59	4		31	4		51 36 19	5		33	15 16
	3	5	52	5		ь	3		54	5			5		36	6		15	16
17 18	4 5 6	4	52 12	5		58 50 41	3 4 5 6		48	6		9			19	6		58	17
	5	3	3 2 2 3			50	5		4			5· 39 21	7 7 8		C.	7 8		43	18
19		2	23	7 8		41			31	7 8		39	7		42			30	19
20	7 8 8]	14	8		30	7 8 8		2 C						25	9		21	20
21	8		5	9 10		18	8		7	9		3 45	9		9	10		15	21
22			5 16			3			52	10		45	9		9 56	ΙI		11	22
23	9	4	1 6	10		47	9		7 52 35 17			28			45	0	a	9	23
24	10	3	35	11		29	10			11		13	11		37 32	1		7	24
25 26	11		22	0	2	11	10		59	0	a	1	0	2	32	2		4	25 26
	٥	2	6	0		53	11		41	0		52	I		29	' 2		59	
27	0	4	18	1		35	0	2	2 5	I		45	2		26	3	٠	52	27
28	Ì		30	2		19	I		11	2		40	3		22	4	•	52 43	28
29	2		[1]	l			1		55	3		36	4		17	5		34	29
30 31	2	Ä	53	l			2		50 43	4		32	4 5 6		IC	6		25	30
31	3		35	·			3	_	43	•		. '	6		1			_ '	31
												-		-		7	7 74	,-,-	

Spring Quarter begins - March 20d 3h 53m morning.
Summer Quarter begins - June 21 1 55 morning.
Autumn Quarter begins - Sept. 22 3 28 afternoon.
Winter Quarter begins - Dcc. 21 7 59 morning.

find the Time of High-Water, and the Hour of the Night.

M	IJ	uly	A	ugust	Sep	tem ber	O	ttober		veinbe	100	M	
D	h	m	h	m	h	ZA	h	m	h	m	h	m	D
1	7	a 18	8	a 43	10	a o	10	a 19	11	2 12	11	a 25	1
2	7 8	· 9	9	34	10	44	11	0	ΪI	59	л	norn	2
3	9	2	10	23	11	27	11	42	n	10rn	٥	17	3
3 4 5 6	9	. 56	11	. 10		orn	n	orn	0	48	I	_ 11	3 4 5 6
5	10	49	11	56	0	10	.0	26	1	39	2	. 6	5
6	11	40	n	orn	0	52	1	11	2	31	3	0	
`7 8	m	orn	٥	40	1	34	1	58	3	24	3 3 4 5 6	5 3	7
8	0	29	I	22	2	18	2	47	4 5 6	17	.4	44	
9 10	I	16		. 4 46	3	4	3	38	5	10	5	35 25 17	9
10	2	0	2	40	3	52	4	31	0	3		25	10
11	2	43	3	29	4	42	5	25 20	6	3 55 4 7	7	17	11
13	3	25 6	4	13	5	35		20	7	47		8	I 2
13 13	4	0	4 5 56	0		29	7	·14 8		39 32	.9	. 2	13
14	4	48	Į	49 41	78	2 5		2	.9	3 2	9	57	14
15 16	5	31		41		21	9	2 56	10	2	10	33	15 16
10		16	7	36	9	17	9	50	11	24	11	30	
17 18	778	4	0	32	11	13 8	10 11	50 46	0	a 21	1	a 44	17 18
10	7	56	9	30 28	0		0	. 14	I 2	- 1	2	36	
19 20	و	51 48	11		1	a 4	1	a 44 42	3	14		25 11	19
21	10	40	0	25 a 22	ī	57	2	39	.3	58	3		21
22	31	♣ 7. 4 0.		18	2	54	3	25		45	4	33	22
23	0	a 44	2	13		50	4	35 29 20	5 6 6	30			23
24	1	39	3	7	3 4 5 6	45		20	ć	, 12	5 6		24
25	2	37 32	4	1	5	39	5	8	6	13 55 36 18	6	42	25
25 26	3	33 26	4	56	6	31	6		7	36	7		26
27	4	18	5	51		21		54 38	7 8	18	7		27
27 28	5	11	5	44	7	8	78	20	9	1	9		28
20	5	- 4		51 44 36	8	53	9	` 3	g	47	é	52	29
30	6	57	7 8	20	9	37	9	44	10	35	10	46	30
31	7	50	و ا	14	1		10	27		- : 1	11	42	31
-											_	-	_

VENUS is a Morning Star till May 20, and then an Evening Star for the rest of the Year.

JUPITER is a Morning Star till January 14, then an Evening Star till August 2, and then a Morning Star to the end of the year.

Digitized by GOOGLE

	Lun	ations.			M Jupiter Venus D fets fets
Full Laft	Moon 11th Quarter 18th	day, at day, at	4 after: 6 after: 9 morn 6 morn	ing.	1 5 a c 5 m c 7 4 29 5 2c 13 3 59 5 31 3 29 5 41 5 2 5c 5 50
MW D	Holy Days, Origes & fets	D rifes & fets	. D's Longit.	D's Declin.	
2 F 3 S 4D	S. af. Christ.	10 41 11 46 morn	3,	0 n 6 4 3 ² 8 53	
6 Tu 7 W	Old Chrift, day Epirhany Lucian	2 4 3 14 4 25	21 6	16 33 19 27 21 20	or cold rain with formy winds and
10 S 11 D 12 M 13 Tu	S. ast. Epiph. <i>Plow Monday</i> Hilary	6 26 Drifes 5 a 42 7 8	3 25 30 18 26 3 3 3 36	21 8 18 49 15 12	much wintery weather. O. New Y. day Cam. T. begins
15 TH 16 F 17 S	Oxf. T. begine Old Twelfib-d.	9 53 11 13 morn	3 -2 7	5 23 0 s 8 5 27 10 20	8 0 4 6 8 8 Perhaps more mild 8 4 8
21 W	S. af. Epiph. Fabian Agnes Vincent			17 54 20 17	8 4 ま for some days, も O な
23 F 24 S	Hil. Ter. beg.		3154	21 5 19 20	but ends most probably with Conv. St. Paul
27 Tu 28 W 29 Th	1	6 a 14 7 17 8 21	3 × 24	9 42 5 34 5 1 12	bluftring winds, and
31 S	[9 25			

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M.	5	tTe			upiti		Mais Venus Longit. Declin. Long.t. Declin									
D.		- 1	20,174	LO		Deglin .	Long		-				-	cun.		
1						1 n 16				s 55		£ 24				
7		10		25	48 2		15.		23	. 30	12 20		20	48		
13		10		25	0 2	_	24		22		27		2 I 2 2	47		
19 25		4 10		23	1/4/2	• •	2.9	~,	21	2		7 54		37		
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М	୍ର		0	's	Observations											
L																
1	lik	Ր 3 Ե	22 :	5/	L'ole	Star 1	outn	at	611.	1517	. at	tern	OUT	t.		
2	12		22	52	3 stur	n fets	at 8	h. 1	ទូ រ ប	n. aft	CTIM	001T.	•			
3	13		22	46	Vars	rifes :	at 4h	. 5	om	. aftı	erno	on.				
1	14		22	39	ن ay ا	bre ak :	at	h.	57	m.						
15			22	32												
6	15 16		22	25	Seve	Star	s four	th:	at 8	h. 20	m.	afte	rno	on.		
7			22	17	Sun	rifes a	t 8h.	OI	n.							
1 8	18	4 .	22	q	Satue	n lets	at :8	h.∢	255	a. af	tern	don	2 0			
	19		22	0,	lupit	er rife	s ar	4h		տ. a	fter	noo	n.			
	20		21	51	, ,				. ,							
	21	- TZ	21		Sun 1	ets at	∡h.	4m	١.				•			
	22		21	22	Dav	light	ends	at .	6h.	7m.		•				
	23	52	21			k be fo						2.				
	24		21			rifes a					,					
	25	22	20	5 9			- 4	,	,	٠	•		٠.			
	26	-4	20	48	Pole	Star f	dun	at	ch.	tom	. af	tern	con			
	27	22	20	26	9 71	n sets	at 7	h.	5 <i>a</i> t	n. af	ern	oon.		•		
17	28	50	20	20	lanit	er rise	10.25	a h	27	4 m . s	fter	ባስሰ	n .	•		
		5/	20	. 29	Sun	enters	ر بشر	Sn.	. J.	aft n	oon.					
1 -	29		20			-11 FC 1 3	*** j	,	t	11		•				
2	1		19	53	Seva	n Star	e fan	rh ·	ı + ~	h ·	۲m	264	rne	\n		
21			19	4'	Day	break	s 10u	ui a rh	** 7	'126 E)	71110	diti	erit.	MII.		
22		٠,	19	30	Day.	rises a	s at) ¹⁴ •	43	141.			,			
23	4	. 3	19,			k beft					:-		_			
. 24	4 5 6	\4	19		-100	K OCIC	ne ir	ic i	9	ızııı.	111	4410	· .			
L	0	5	18	46	e	Cata ca	h	٠.					-			
26	1 -		18	31	oun:	lets at	44 EL .	21	III.							
27			18	' I.	Jay	light	enas	at	on.	23n	l.					
28	1 -		18	0	oatu	n fets	at o	η.	5 31	m. af	tein	oon	•			
29	10		17			er rife	s at	2n.	39	ym. a	ittei	noo	D.			
13C	11		17	27												
131	12	10	117	10	ı											

Lur	Lunstions.												
First Quarter 3d Full Moon 10th Last Quarter 16th New Moon 25th	1 5m4c 5m57 7 6 14 6 1 13 5 44 6 2 15 5 24 6 0 25 5 1 5 58												
M W Holy Days, D Orifes & fets	D rife & fets I			Aspects and Weather									
1 D4 S. af. Epiph. 2 M Purif. Can. day	morn	3 8 47	15 16	Cloudy with rain,									
3 Tu Blaje 4 W 5 Th Agatha	1 50 2	9 33	20 33	or Inow- Sharp air with Inow									
6 F 7 S	4 4 2	3 II 3 27 2 11 25 30	21 32	or cold rain.									
8 D Septuagetima 9 M 10 It	6 141	26 24 11 N 38 27 O	17 I 12 52	Rough winds and cloudy towards the									
1 1 W 1 2 Th Hil. T. ends	7 a 1 d 1	2项19	7 51 2 22 3 \$ 12	middle of the month.									
13 F Old Cand. day 14 S Valentine 15 D Sexagelima S.	11 22 2	26 20	8 25 13 2	After more moderate									
16 M	morn 1 0 38 2 1 44	10 m 3 23 17 6 2 7	16 46 19 30 21 9	for the feafon, but									
18 W 19 Th		.0155c	21 41 31 10	foon varies.									
20 F 21 S 22 D Quinq. Shro. S.	4 14 1 4 4', 5 16	,		Δ4 g Wet, dark and									
23 M [Tuesday 24 Tr Matthias. Shr.	5 41 6 1	18 32 0 X 3 4	10 42 6 41										
25 W Ash-Wednes. 26 Th 27 F	D fets 7 2 18 2	12 18 24 15 6 ° 17	1 n 5 8	and fo continues									
28 S	9 32			•									
				,									

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М	Saturn					Jup	M	ars			Venus							
P	Le					1416	De	clin.	Lu	ųit.	D	20111	1.	וטע	igit	, De	ecli	n.
		X.c		s 29	22 9			n 4		35	20	8			J 33	22	8	28
	10				21		22	31			18			20	57	31		43
	12	, ² 3	ı.		30 31		22 22	,	18		17		41 16	20	22 4 ⁹	19		48 16
	12				20		12		23		14		4			17		31
-	7		_	_	·		-						_	<u> </u>	 ;			-
M		⊙'s		0	's	`			(Oble	rva	tic	ns	ļ				
				Dec														_
D	1	3 🛲 1	1	10 8	53	Pole	Sı	ar ic	uth	at 4	μħ.	411	ì.	alte	rno	3n	7 '	
	1 1		12	16	35	Day	br	eaks	at	5h.	281	m.				٠.		
1 3	3 1	S 1	13	16	18	Sun	rif	les at	: 7h	. 23	m.					,		
4	1	5 1	14	15	59	Day	is	9h.	140	ı. lo	ng	•				•		
1 5	JI.	7 1	14	15	41	Ī		-	١		-							
6	1		15	15				Stars								ern	00	n
1 7	119	9 1	16	15	4	Satu	ırn	fet s	at 6	5h. 4	ıp	1. 2	μtι	erno	goo			
D	20	ວ່ 1	16	14				Set										
9	2		17	14	25	Cloc	k l	befor	e tł	ie Si	ın	141	m.	40	fec.	• •		
10	2:			14	6	Ì	_	•					- '					
1 3	2	3 1	ı 8	13				ts at						,				
1 2	2/2/			13	26	Day	Ιį	ght e	nds	at 6	h.	46	m	٠.				
	12		19	13	· 6	Day	is	9h.	SZI	n. lo	ng							•
14	H20	5 2	20	12	45	Day	is	incr	east	d zi	. 1	411	١.					
D	2	7 2	EO.	12	25						. '	•		_			•	
16	2	3 2	to	12.	4	Pole	: Si	ar sc	uth	at 3	h.	411	1.	afte	no orr:	on		
117	29	9 2	1 2	II	43	Jupi	ter	fets	at g	;h. 4	2n	1. I	no	mi	ng			
18	3] () X 2	2.8	11	21	(O)	nte	ers 🛪	{ 3l	ı. 28	m.	. m	or	nin	g]
119	1	. 2	2	11	0					_	_		_					
	1 k		2	10	38	Mei	cui	ry's į	grea	teft	elo	ng	ati	Off	_			
21	1 3	3 2		10	17	Seve	n S	Stars	fou	th a	t 51	1. 1	21	n. 1	L fte:	DO	QN	
D	4	1 2	3	9	55	Satu	rn	lets :	at 5	h. 5	3 m	i. Z	fic	The	OD		•	J
23		, 2	3	9	33	Jupi	ter	lets	ζh.	900	. m	OLI	air	g				
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26		3 2	4	8	26	Sun	rife	es at	бh.	391	ŋ.							
27) 2	4	8	3	Sun	fet	s at	5h.	22N	1.	_						
28	10		4		40	Day	lig	zht e	ŋds	at 7	h.	18	m	•				-
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1				•						- 7	- 7				J	
M		Satur	n	T.	Jupiter				Mars				Venus			
					ık t.	De	clin.	L	ongit.	Dec	ı.n.	Lo	ngit	De	clip.	
	13)	3×20 8 8 12 20 g									42	18			SII	
	14 4 7 56 19				- 57	22			X 10			25		13	58	
1 3	-			0119	52	22 22	30	10		10	20		¥ 1		31	
25	1′5 16	32		2 19 7 20		2.2		1,5	45	6	2.5	10	27		53	
			1									-		•		
M	. 6)'s)'s	1				Obfe	rvat	ions	S				
1		ngit			Observations											
D	11	¥ 25	7	s 18	Pol	e S	tar fo	out	h at	2h.	15 m	1. a	ltern	aoon		
2		25	6	55	Bat	urn	fe s	at	5h.	29m	. afi	teri	noon			
	13	25		32	up	itei	[ets	at	4h 3	7m.	mo	rni	ng .			
4	15	25	6	ç	Cio	ck	is be	for	e the	Sur	111	Ä.	. 548	SC.	•	
5	15 16	25	5	4.5			_						_		•	
		25	5 [22	Sev	en	Stars	s io	uth a	at 4h	. 4	4m	. afte	erno	on	
7	17	2.		59	(i)ay	/ bi	reaks	at	4h.	30m	١.					
1 -	18	24							h 20					٠,		
	19	2,4	4	12	Day	/ 15	IIh	. 2	4m.	long	•.					
	20	24	3	48	, ,		• •		. <i>†</i> 1							
	21	24	H 3	25	at	urn	rues	3 a1	6h.	9 m .	me	MAD.	ing		۲	
	22	23	י וי	•	Jup	ite.	r lets	a	t 4h.	4III.	300	HB.	ing.			
13	23	23		38	un	ilei	ts at	51	501	n.						
	24				Day	/ 11	gnt e	end	s at	7n. 3	3 3 M	١.				
	25	22	1	50	0.1		c		L	1.		_	C	_		
	26	22							hat			. a	itern	con		
	27	22		3	Cay	7 01	reaks	3 20	4h.	1211	l,					
	28	21		39 16	oun	LIII	ies ai	C D.	h. or	п.						
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20		Υ 20 20		11 0	0	en (Ctord Stord	6	3h. 5	jiii.	1110	1111	ng.			
2 I	1 2			54	CV.	CII	rife		uth a t 5h.	271	. 20)!!!.	arte	IDO	UII	
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2.3				43	Jup	¥fC]	TEE	s a	. 311.	44	1 . Jahr	, Jel	with			
24		17			5,,,		ec 20	. سر	h. 44	m						
25 26	5	10		. 20	Sur	· fe	ts at	ر ۱۱۵	. 181	m.					•	
27		10	5 2	- 50	יים	r li	ohr 4	end	ls, at	Sh '	9 I PM					
28		1	1)) 17	Cic	r ii	is he	efo	re th	e Sm	n 4.	m	426	c.	•	
D				40	۱×،۰		-4 N		-4 -11		4		4410	••		
	10			3				•								
130		1 1		26												

Lur	M Jupiter Venus D fets rifes									
Full Moon 9th Last Quarter 17th	day, at 8 morning day, at 11 night day, at 8 morning day, at 10 morning	1 2m52 5m16 7 2 31 5 6 13 2 11 4 57 19 1 50 4 47 25 1 31 4 33								
MW Holy Days, D Orises & fers	Drises D's D's & sets Longit. Declin.	Aspects and Weather								
I W 2 In	morn 18 h 53 21 n 17	Sharp mornings.								
3 F Richard 4 S St. Ambrose	2 10 O S 5 1 5 40	Ca.T.e. & b & Oxf. Term ends								
6M	2 50 14 27 11 45 3 19 29 4 6 58 3 45 13 攻53 1 44	Brifk winds and								
8 W	3 45 3 7 7 7 5 3 7 4 4 10 28 46 3 s 37 Drifes 13 23 8 45	Seasonable showers.								
10 F Good Friday	7 2 5 8 2 8 13 18 9 16 12 m 23 16 59	Mild rain about this								
D Easter Day M Easter Monday M Easter Tuesday	10 26 26 15 19 34 11 28 9 241 20 57	Tale: wat us cloudy								
14 IU Canor Tackary 15 W 16 Th	morn 22 4221 10 0 19 51921 20 16 1 017 4118 24	fhowers.								
17 F 18 S	1 33 29 47 15 46									
19 D Low Sunday	2 46 5 X 29 4 42	weather; fair and mild.								
W Ox.&Ca.T.be.		1								
F [Mary b.	4 6 24 3 12 6	expect fome florms								
26 D 2 S. aft. Eafter	8 2 50 19 27 18 25									
28 Tu 29 W Eafter T. beg 30 Tu	10 53 15 44 21 9	, a 4 &								
PTT	1	1								

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M		Sat			L		iter			M			_		nue	
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	173								20 7	56	4					8 4
7	18	44			20		22		25 0 m	36	2			Υ.		D 1
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25		38		-	22		22	- 8		31	2		26	7	8	54
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1)	-	_	_	Dec		-										
1	1	Y		4 r	49	Pole	Sta	ır fo	outh a	it o	h.	200). ai	oer n	100	n
2	13		10	,	12	Satu	ırn 1	ifes	at 4	h. 5	551	n. n	on	ing		
3	14		9	5	35	Jupi	ter :	lets	at z	h. 4	ŀ5:2	d. I	io pr	mg		
4			8				cury	75	great	eit (elo	ngai	ion			
L			76	6	21	-	_		_					_		
6	17		6	6					s fout				ım	. aft	ern	100n
7			5	7	6	Day	bre	aks	at 3	h. 1	81	n.				
8	19		4	7	28	Sun	rife	s 21	5h.	181	m.					
9			3	7	51	Clo	k is	be	fore	the	Sų	וו מו	m. :	z6fe	c.	,
	21		1	8	13	_		′			•					
	22		0		35	Satu	ırn r	ifes	at 4	h. 2	241	n. m	orn	ing		
-	22		59	8	57	Jupi	ter i	ets	at 21	1. I	411	ı. m	orni	ing		
13	23		57	9	18	Sun	fets	at	6 h. 5	I M	•					
	24		50	9	40	Day	ligi	ht e	nds a	1t 9	h.	2M.				
15	25			10	1	_	_	_		•						
	26		53	10					outh a							
	27			10	43	Day	is I	13h	. 58n	a. k	OP)	*	_			•
18			50	11					the :							
D	29		49	11	25	0 0	nter	s t	5 4m	. 31	8	L afi	CIB	DÓR		
20	0	8	47	11	46		_					_	•			
2 I	1		46	12	6	Seve	en S	tars	fout	h at	1	h. 5	500		10	00n ,
22			44	12	26	Day	bre	aks	at 2	h. 3	51	6. ·				
23	3		42	12	46	Sun	rife	s at	4h.	501	n.					
24	4			13	6	Day	is i	ncr	eased	6h.	. 4	om.		′		
25	1 3			13	25									_		
1)	6		37	13	44	Satu	ırn r	ifes	at 3	h. :	3 21	m. n	1100	izg		
27			36	14	4	Jupi	ter i	ets	at 1h	1. 2	411	1. m	orn	ing	,	
28				14	22	Sun	fets	at	7ħ. 1	9m	١.					
29			- 1	14	41	Day	ligi	ıt e	nds a	t gl	1	y Rue	•			
30	10	. :	30	14	59			,								
ı	ı			١.	- 1	ı										

Lun	ations.		,	D lets lets
First Quarter 2d day, Full Moon 9th day, Last Quarter 17th day, New Moon 24th day, First Quarter 31st day,	at om at a m at roni			1 Imic 4m27 7 0 50 4 18 13 0 29 4 10 19 0 8 4 3 25 11 1 47 3 59
M W Holy Days, D D Orifes & sets	D rifes & fets	D's Longit.	D's Perlin.	Afpects and Weather
I F St.Phil. & Jam.	om 23	20 <u>95</u> 43 10 N 46	12 4.3	
3 D 3 Sun. af. Eaft.	1 53		3 17	ITTI WATER AND THE PARTY AND THE PARTY IN
5 Tu 6 W 7. Ev. a. P.L.	2 17 2 42	8210	16 co	and dark drieling weather Then more mild, fair, and
7 TH 8 F 9 S	3 7 .3 37 D rifes	22 30 6m41 20 36	15 3	picarant.
10 D 4 Sun. af. East.	-	4#15	20 30	* 0 %
12 Tu Old May Day		13 11	19 7	Sudden showers;
14 TH 15 F 16 S	morn o 5	7 = 42	13 35	
16 S 17 D Rogation Sun.		1	5 59	perhaps attended with Thunder,
19 Tu 20 W Q. Charl. born		25 26	2 n 31	Dunflan, * 4 \$
21 TH Afection 22 F Prs. Eliza. be	2 36	19 50	10 50	then more terene
23 S 24 D S. aft. Ascen.) fets		19 49	showers of rain or hail.
25 M Easter T. ends 26 Tu Augustin Abp. 27 W Ven. Bede	9 39	25 23 9 9 23 17	21 (Weather
28 Th Oxf. Ter. end	10 59	23 21	17 1	inclined to heat.
30 S 31 D Whit Sunday		721 4 6 mg	9 1	408

26 5 33 21 15 Seven Stars fouth at 11 b. 40 min. morn.
27 6 31 21 25 Sun fets at 8 h. 3 minutes.
28 7 28 21 35 No real Night, but

29 8 26 21 44 All Day or Twilight, till July 22. 30 9 23 21 53 D 10 21 22 1

V	711	N G			June, 1789. 19
M	ſ	Satu			Jupiter Mars Venus
D	Lo	og.	De	cl. 11	ong. Declin. Long. Decl. Long. Declin.
I	22]	₹28	4 8	51 2	79559 21 n 7 1 7 25 13 n 21 11 11 87 22 n 8
7	22	45	4 .	45 2 41	9 6 20 53 11 50 14 48 18 59 23 11 00 16 20 38 16 12 16 10 26 28 23 49
13	23	59	4		1 27 20 23 20 33 17 26 32744 24 2
25	23	16	4	37	2 40 20 7 24 51 12 35 11 7 123 50
M	Su	n's		8,411	Observations
D	Lo	igit.	De	clin.	10.10.10.10.10.10.10.10.10.10.10.10.10.1
1	B				Pole Star fouth at 8 h. 28 min. morning
	12		22		Saturn rifes at 1 h. 10 min. morning Jupiter fets at 11 h. 15 min. afternoon
	13	•	22 22	25	Day is 16 h. 20 min. long
	14		2.2		
	16	5	22	44	Seven Stars fouth at 10 h. 35 m. morning
	17	2 2	22	.50	Sun rifes at 3 h. 48 minutes
8	18	1	22	55	Sun lets at 8 h, 13 minutes.
1 9	18	57	23		Clock is after the Sun 1 min. 10 seconds
10	19	54	23	5	
	20		23		Saturn rifes at 0 h. 34 m. morn.
	21		23		Jupiter sets at 10 h. 42 m. asteracoa Day is increased 8 h. 48 min.
	22		23		Day is 46 h. 82 min. long
	23		23		
	25		23		Bole Star fouth at 7 h. 29 min. morning
	26		23	. 2	Mercury's greatest elongation
	27		23		Sun rises at 3 h. 43 minutes
1	728		23	•	Sun fets at 8 h. a7 minutes
	29		23	2	
I	1 -	2524	., -	2	So enters as 1 h. 55 min. morning
2:	- 1 -		123	2	Saturn rifes at 11, h. 50,min. afternoon
2	- 1	- 1	22	2	Jupiser fets at 10 h. 4 min. afternoon Day is 26 h. 34 minutes long
2	-, -		2		
2			3 2 3	. تر : 2	Seven Stars fouth at 9 h. 33 min. morn.
2	12		7 2	1	Sun rifes at a h. 44 minutes
I) 7	į	5 2	1	Sun sets at 8 h. 16 minutes
2	g¦ 8		2 2	3 1	3 Clock is before the Sun 3 m. 2 feconds.
12		.54	0 24	1 1	ol ·

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_		N G					2 1
N		Sat			١.	Jupiter Mars Venus	
					L	ong. Decl. Long. Decl. Long. Decl.	•
				38	3		12
	23	19	4	39 42	. 5	12 19 32 3H20 20 33 25 51 22 1	0
	23	-3	4	46	7	' 30,19 13 7 30 21 22; 35(13 20 , 4	
	22		4	52			8 2
.VI	, 5	un's		un'		Ohlows	
D	Lo	ngit	.D				_
1		25 5 6		'n	6	Pole Star fouth, at 6 h. 25 min. morning	g
i	10		23		1	Saturn rises at 11 h. 9 min. asternoon	-
	E E		22	5	0	Jupiter sets at 9 h. 27 min. asternoon	
	12		22			Clock is before the Sun 3 min. 58 fec.	
	13		22		15		•
		42		3	19	Seven Stars fouth at 8 h. 32 min. morning	g
		39		.3	3	San rifes 3 h. 49 minutes	-
	16					Sun sets 8 h. 10 minutes	
	17		22		-	Day is decreased 16 min.	
	18				1		
	19		22		3	Saturn rises at 10 h. 31 min. afternoon	
	20	,	21	5	5	Jupiter sets at 8 h. 55 min. afternoon	
	2 I		2 I	4	ļθ	Day is 16 h. 10 min. long	
1 1	22	20	21	3	37	Clock is before the Sun 5 m. 24 feconds	3
	23		21	1	27	,	
16	24	14	21	1	7	Pole Star fouth at 5 h. 24 min. morning	ø
	25	12	21		7	Sun rifes at 3 h. 50 minutes	7
	25	9	20	5	7	Sun fets at 8 h o minutes	
	27		20	4	16	Day is decreased 38 minutes	1
20	28	• 4	20	3	34		
Z 1	29		20	2	23	Seven Stars fouth at 7 h. 31 m. morning	١
22	29		ZO		и	⊙ enters & o h. 44 minutes afternoon	۱,
23	0	N 56	19	5	8	Saturn rifes at 9 h. 52 m. afternoon	- 1
24	1	53	19	4	16	Jupiter sets at 8 h. 14 min. afternoon	1
25		50	19	3	33	The state of the s	1
D	3	4 3	19	1	19		-
1:7	4	45	119)	6	Day breaks at o h. 57 min.	
28	5	43	18	5	; 2	Sun rifes at 4 h. 14 minutes	
29	-		18		3 -	Sun fets at 7 h. 45 minutes	
130		37	18		23	Day light ends at 10 h. 46 minutes	1
31	1 8	35	1 8		8	12-17 1.6-1- 1103 to 10 11 40 minutes	1

TY ING.	A	ugust, 1789.	23							
M, Saturn	Jupiter	Mars	Venus							
		Long. Decl. Long. Decl. Long.								
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13 22 2 5	17 13 17 17	26 28 24 23 39	11 18 8 37							
19, 21 40 5	27 14 36 17	4 25518 23 44	18 40 5 40 26 1 2 38							
M1 Sun's	38 15 54 16 Sun's I	41 6 8 23 42	39							
D Longit. D		Observation	S '							
11 00 22 11	a a naiRole Star	fouth at 4 h. 20	min. morning							
D 10 30 1	7 II 5 31 OIC OLUL	es at 9 h. 3 min.	afternoon							
1 - 1 - 1 -	7 30 Juniter r	iles at 4 h, 17 m	in, morning							
3 11 27 1	6 Memury	greatest clongat	ion							
513 221		P1011111 1111 P								
614 201	5 22 Seven Sta	re fouth at 6 h. 2	8 min. morning							
715 1716	6 Day brea	ks at I h. 47 min	•							
816 151	c co Sun rifes :	t 4 31 minutes	•							
D 17 121	42 Day is de	creased 1 h. 41 n	ni n.							
1018 101										
11/19 7/1		es at 8 h. 24 min.	afternoon .							
1220 51	4 48 Jupiter ri	ses at 3 h. 53 m	in, morning							
13 21 31	4 30 Sun fets a	t 7 h. 20 min.	•							
1422 01	4 11 Twilight	ends at 9 h. 46 m	in.							
15 22 581	3 93									
D 23 56 1	3 33 Pole Star	fouth at 3 h. 23	m. morning							
17 24 54 1	3 14 Clock is	before the Sun 3	m. 37 seconds							
1825 511	z 55 Day breal	rs at 2 h. 22 min.	•							
1926 491		at 4 h. 51 min.								
2027 47 12										
21 28 45 11	55 Seven Star	rs fouth at 5 h. 31	min. ,							
22 29 43 11	35 Sun enter	- 攻7 h. 3 min.	afternoon							
D 07041 11	15 Saturn rife	s at 7 h. 43 min.	afternoon -							
24 1 3910	54 Jupiter rif	es at 3 h. 23 min.	. morning							
25 2 37 10			_							
26 3 35 10	12									
27 4 33 9		ks at 2 h. 53 m	n.							
28 5 31 9		at 5 h. 8 min.								
	9 Sun lets	at 6 h. 51 min.	•							
D 7 27		ends at 8 h. 58	min.							
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30 WISt. Jerome.

27 D 16 S. aft. Tr.

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27 rough winds and

33 udden showers.

D & B

37 Prs. Ch. Au. Wb. .

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M			atu			Jupiter			!	Venus	<u></u>
\mathbf{D}	ŀĽ	ong	. L	ecl.	ILO	ng. De	cl.1Lo	ig. De	cl. Lon	g. 1)e	
7 13 19 25	16	¥.5 4 3	1 2 6	7 8 20	2 28 2 28 4 29 4 0	月15 12 59 12 37 12 収10 12	37 17 24 20 14 22	27 17 3 16 29 16	1 1 18 1 19 25 39 2	34 24	53 32 44 30 50
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١	24			3 20	44	Jupite	r riles a	t 11 b.	o m. a	iternco	n.
-	25 26		4	4 20 5 2 1	55	Seven	Stars fo	outh at	ı h. 21	m. afte	raco.
	27	5	4	5 21		Day b	reaks a	tς h. ς	o. min		
	28			5 21	28	Sun ri	les at 7	b. 54	min. `		
	D 3°		4	721	31	PClock	is afte	r the S	ın II m	. 7 fec.	,

30	DECEMBER XXXI Days.								
		Lunations M Jupites Venus fets fets							
_!	Pal	rall moon the 2d day, at 5 afternoon 1 10a 32 7 a 3 aft quarter the 9th day, at 6 afternoon 7 7 7 16							
1	Lan Nev	v moon the 16	th day, at 5 afternoon 13 9 42 7 30						
1	First quarter the 24th day, at 1 afternoon 25 8 47 7 57								
	W	Holy-Days	D rifes Moon's Moon's Aspects and						
D	T	⊙ riles & lets							
2	. 27		Om 26, 25 & 39, 18 n 38 This month ap- Drifes 8 1130 20 spears to be ush-						
23	Г		5 a 6 21 37 20 24 ered in with						
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9		Conception .	11 1 cm223 6 33 heavy showers,						
9	M.	Ϊ,	moin 14 30 1 45 high winds,						
1(Γ F		0 1828 40 3 s 10 and a great						
1 ·	ŝ		1 37 12 25 1 7 55 variety of cold 2 53 27 0 12 15 winterly weather						
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		V	Ĭ	N G	December, 1789.	3 1
M		Sati		1	Jupiter Mars Venus	_
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7	16	·52	7	2.5	1 13 11 57 28 26 14 31 0 55 22 20 11 55 29 52 14 12 7 44 20	17 34
13 19	17	23	7	- 1	2011 57 00 57 14 0 14 26 18	20
	17	42	6_	51	1 13 12 c 1 40 13 57 21 2 16	4
M		m's		un's	Observations	
D	Lợi	ngit.	De	clin.		_
1	94	£49	2 I	57	Pole Star fouth at 8 h. 33 min. afternoon	1
	10		22		Saturn fets at O h. 2 min, morning	
	11		22	14	Jupiter rises at 10 h. 24 min. afternoon	
	12		22		Clock is after the Sun 9 m. 10 feconds	
,₹	13		22		Camera Chara Courth at to har a Camera a Gramman	
			22		Seven Stars fouth at 10 h. 38 m. afternoo Day breaks at 5 hours 57 minutes	m
1 6	15		22 22	40	Sun rifes at 8 h. 3 min.	
	17		22	49	Day is decreased 8 hours 42 minutes	
	18		23	22	Day is decicated a notice 42 minutes	
٠,	19		23	-	Saturn sets at 11 h. 25 min. afternoon	
	21		23		Jupiter rifes at 9 h. 46 m. afternoon	
	22		23		Sun fets at 3 h. 54 min.	
	23		23	17	Twilight ends at 6 hours 1 minute	
	24	3	23	•		
16	25	4	23	2 2	Pole Star fouth at 7 h. 27 m. afternoon	
117	26	Ć	23	24	Day is decreased 8 hours 48 minutes	
	27		23		Day is 7 h. 44 min. long	
	28		3 2 3	•	Clock is after the Sun 2 m. 9 feconds	
	29		23			
21		BIG	, -		Sun enters 19 7 h. 59 min. morning	
2 2	, -		23		Saturn fets at 10 h. 40 min. afternoon	
23			3 23		Jupiter rises at 8 h. 56 m. afternoon Day breaks at 6 h. 1 min.	
24	, -		4 2 3 5 2 3		1 ·	-
25			6 2 2		Seven Stars fouth at 9 h. 10 m. afterno	on
D			7 2 2		Sun rises at 8 h 7 m.	-
28			82		Sun fets at 3 h: 54 minutes	
20			022		Twilight ends at 6 h. o m in.	
30	"		1 2			
	llió		2 2		4 .	

13	32 Mercury's Longitude and Declination, for 1789.									
Ľ	ays	Lo	ng. De	clin.	Lo	ng. IDe	clin.		ng. Dec	lin.
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١_	20	1 21	48120	34	18-	5 1 5	25	3	2624	5 t

A Compendious Chronology of memorable Things fince the Creation to this present Year.

4 75 7		<u>-</u>	120.2				
A.P.J.	before		Years				
	Chrift.	Mha Charles at the Warth	fince.				
710	4004	The Creation of the World	5793				
1766	2948	Neab born	4737				
2366	2348	Noab's Flood began	4137				
2481	2233	The Babylonian Monarchy established					
2718	1996	Abrabam born	3785				
2986	1728	Joseph fold into Egypt	3517				
3143	1571	Mojes born	3360				
3223	1491	The Israelites Departure out of Egypt	3280				
3530	1184	Troy taken and destroyed by the Gracks	2973				
3710	1004	Solomon's Temple built and dedicated	2792				
4126	588	Jerusalem and the Temple destroyed	2377				
4176	538	Daniel delivered from the Den of Lions	2327				
4198	516	The Temple of Jerusalem rebuilt	2305				
4391	323 [.]	The Death of Alexander the Great	2112				
4710	4	The true Year of Christ's Birth	1793				
4714	0	The vulgar Year of Christ's Birth	1789				
A.D.							
33	The Par	tion and Resurrection of Jesus Christ	1756				
70	Ferulat	em and the Temple destroyed by Titus	1719				
100		, the last of the Apostles, dies $Dec.$ 20.	1689				
313		nity triumphs under Constantine	1476				
476	Augustu	lus, the last Roman Emperor, deposed	1313				
606		cked Phocas makes Pope Boniface Head					
	of th	e Church	1183				
608	Mahome	es broaches his Imposture at Mecca	1181				
872		d Rome plundered by the Saracens	917				
1012		King of Denmark conquers England	777				
1066	Willian	Duke of Normandy conquers England	723				
1110	Arts and	d Sciences taught in Cambridge	679				
1119		t War between the French and English	570				
1300	The Mariners Compass invented						
1330	The Canaries discovered by an English Ship						
1380	The Canaries discovered by an English Ship Gunpowder and the Use of Guns first found out						
1453	- • • • • • • • • • •						
- 177 1			336				

٦.٣		lac.
A.D.	p Alm and the second	Years
- 160	and the same of	fince.
3403	The Persians conquered by Tamerlane	326
500	Rome plundered by the Duke of Bourbon	289
1517	Martin Luiber hilt disputed against Popery	271
. ≩ 430	Martin Luther first disputed against Popery England separated from the Church of Rome The Spanish Armada deseated by the English	253
1500	The Spanish Armada defeated by the English	199
1003	Q. Eliz. dies March 24, and K. James I. began	186
1004	Died of the Plague in London, in 2 Years, 68,596	185
1005	Gunpowder Treason, Now. 5.	184
1013	The New-River Water brought to London The excellent Sir Walter Raleigh beheaded	176
1018	The excellent Sir Walter Raleigh beheaded	171
1625	K. James I. died, King Charles I. began, Mar. 27.	164
1625	35,417 Persons died of the Plague in London	164
1641	The cruel Irish Massacre began, Odober 23.	148
1643	Burleigh House stormed by Cromwel, July 24.	145
1649	K. Charles I. beheaded, January 30.	140
	Oliver Cromwell died.	131
	K. Charles II. restored, May 29.	129
	68,586 Persons died of the Plague in London	124
	London burnt, and a great Sea-Fight with the Dutch	123
	War-declared against the Dutch, March 17.	117
1674	A great Snow for 11 Days together	115
1675	The Town of Northampton burnt, Sept. 3. A great and splendid Comet appeared	114
1680	A great and iplendid Comet appeared	109
1684	The great Frost that held 13 Weeks	105
1685	K. Charles II. died, Feb. 6. and K. James II. began	101
1685	The Duke of Monmouth beheaded, July 15.	104
1688	Seven Bishops sent to the Tower, June 8.	101
	K. James II. abdicated, December 12.	101
1689	K. William and Q. Mary crowned, April 11.	100
1692	The French Fleet entirely deseated by the English	97
	Whitehall Palace destroyed by Fire.	91
1702	K. William died, March 8, and Q. Anne began	87
1702	Q. Anne proclaimed War against France, May 4.	. 87
1703	A great and terrible Wind, Nov. 26 and 27.	86
1704	Gibraltar taken by the English	85
1707	England and Scotland united, May 1.	82
1710	Riots and great Disturbances in England.	79
1714	Q. Anne died August 1. and K. George I. began	75
		, ,,

79 75

r⁄78	9. Chronology.	35
A:D.		Year's
	A Dahallian in Cardand and Tame discountries	fince.
1715	A Rebellion in Scotland and Lancashire suppressed A great Frost in the Beginning of this Year	
1710	The Spanish Pleet destroyed by Admiral Byng.	73
	A surprizing Meteor seen, March 19, at 8 at Nigh	
1719	Mr. Flamfteed, a celebrated Astronomer died Dec. 31	70
1727	The incomparable Sir Ifaac Newton, died Mar. 20	6 ₂
727	The incomparable Sir Isaac Newton, died Mar. 20 K. George I. died, June 11, and K. George II. began	62
736	The Prince and Princess of Wales married, Ap. 27.	53
739	Letters of Marque published in London against the	
	Spaniards, July 16.	50
739	War declared by Great Britain against Spain.	50
	Porto-Bello taken and destroyed by Admiral Vernon.	
740	A very severe Frost from Dec. 25, to Feb. 27.	49
742	A Comet appeared from Feb. 18, to March 14. A splendid Comet appeared from December 23, to	
·443	February 18, in \(\gamma\)	46
744	March 4, France declared War against England;	
. "	and March 31, England declared War against	'
	France.	45
745	Cape Breton taken from the French, June 16.	44
1746	The Scotch Rebels defeated by the Duke of Cum-	,
	berland, at Culloden, near Inverness, April 16.	43
	A General Peace figned October 7.	4.I
749	Cape Breton restored to the French.	40
1750	The British Pishery established. The Prince of Wales died March 20.	39
752	The Date and Calendar altered.	38
755	Liston destroyed by an Earthquake, Nov. 1.	37
756	England declared War against France, May 18.	34 33
1756	The Island Minorca taken by the French, June 27.	33
757	Count Brown defeated by the King of Prussia near	"
-	Prague, May 6.	32
757	The King of Prussia deseated by Count Daun at	}
	Collin, June 18.	32
758	The French defeat. At Crewelt by P. Ferdinand, June 23	31
758	Lord Howe slain, July 6, and Gen. Abercrombie repulsed at Ticonderoga, July 8.	4
758	Cape Breton taken by the English, July 26.	31
-/3°[· ·	31
	. C :	A. D.

I^{-}	Equation of Time to the nearest Minute.												
Day	Jan fub	fub	Mar duì	Apr fub	May add	june add	joly fub	Aug íub	Sept add	Oct add	Nev	Dec add	Day
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8	7	15	12	2	4	1	5	5	3	13	16	7	.8
9	8	15	11	1	4	1	5 5 5 5 5 5	1 5		13	16	7.	9.
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20	11	14	7	1	4	1	6	1	7	15	14	2	20
22	12	14	7 7 6 6	2	4	1	6	3	7	15	14	1	21
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7.1	14	,	Δ.		3	1	6	add		16		A	3 T

If the equal or clock time be given, add or subtract the tabular numbers to or from it, as directed in the table; the sum or difference will be the apparent or solar time. But do the contrary to reduce the apparent to equal time.

C 3

ECLIPSES

	The Ecliples o	l Jupiter's	
January	February	March -	April
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2 19- 39-47		4 1 59 42	3 4 15, 27
4 14 7 28			4 22 45 43
6 8 35 8	1 ' ' ' '		6 17 14 57
8 3 2 53		9 9 27 4	
9 21 30 3,			
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15 7 8 54	1. 552	1 2 22	
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18 20 4 52	21 11, 5 42	21 18 51 35	1
20 14 32 5;	23 5 34 35	23 13 20 50	
22 9 0 58	25 0 . 3 34	25 7 50 6	24 10 6 32
24 3 29 4	26 13 32 33		
25 21 57 14			
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29 10 53 44		. '	*
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My	June	July	August
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1 12 2 34		; *	•
3 6 31 29		,	;
5 1 0 23 6 10 29 16	5 21 35 34 7 16 3 57	The Eclipses of	The Fictionies of
	7 16 3 57 9 10 32 19	Jupiter's Satel-	the Satellites of
8 13 58 5 10 8 26 54	11 5 0 39	lites will not be	Tubiter will not
12 2 55 41	12 23 29 0		be visible this
13 21 24 25			Month, Jupiter
15 15 53 9	16 12 25 39	ter being too	being too near
17 10 21 50	18 6 53 58	near the Sun.	the Sun.
19 4 50 29	20 1 22 16		• .
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22 17 47 42	23 14 18 52		
24 12 16 16	25 8 47 10	-	,
26 6 44 49	27 3 15 29		
28 1 13 20	28 21 43 48		
29 19 41 49 4 10 18	30 16 12 9		
- 10 10			

ririt Satellite.							
September .	October	November	-December				
Immertions	-Immersions	Immerfions	Immerlions				
2 7 10 39	2. 9 25 27		1 13 30 35				
4 1 39 46		1 7 - 1	3 7 58 16				
5 20 8 53	5 22 23 26	5 0 30 52	5 2 25 54				
7 14 38 1	7 16 52 25	1 · h 1					
9 9 7 19	1.7	, , ,	8 15 21 3				
11 3 36 18	11 5 50 12	10 7 55 37	10 0 48 37				
12 22 5 29			12 4 16 8				
14 16 34 34		13 20 51 53					
16 11 3 4		15 15 19 57	15 17 11 FO				
18 5 32 49	18 7 45 26	17 9 47 58					
20 0 1 5			19 6 6 9				
21 18 31		20 22 43 52					
23 13 0	23 15 11 27	22 17 11 44					
25: 7 29 14	1 25 9 40 6		24.13 28 37				
27 1 58 19		26 6 7 25	26 7 56 7				
28 20 27 2	1 28 22 37 11						
30 14 56 2	3 30 17 5 40	29 19 2 54					
1			31 15 18 40				
1	j'	•					
1]					

To illustrate the Use of the preceding Table by an Example.

Suppose on the 28th Day of December this Year, the Time of the Immersion of Jupiter's first Satellite be observed by a Telescope in an unknown Meridian, to happen at 4h. 11 min. 56 sec. at Night; I find by the Table, that the Time of this Immersion will happen at the British Observatory at 2 h. 23 min. 36 sec. the same Day: The Difference of the Times is 1 h. 48 min. 20 sec. which being converted into Degrees and Minutes of the Equator, at the Rate of 15 Degrees per Hour, will make 27 deg. 5 min. the Longitude of the Place of Observation to the East; because the Time is more than that at the British Observatory.

Immersion observed
Immersion at Greenwich

The Difference of Time
Answering to

4^h 11^m 56^s 2. 23 36

1. 48. 20»

27° 5° 0″

Me vero primum dulces ante omnia Muíæ, Quarum facra Pero ingenti percules amore, Accipiant; cælique vias et Sidera monstrant; Defectus Solis variosque Lunæ labores,

This Year there will be four Eclipses; two of the Sun, and two of the Moon; one only of which will be visible to the Inhabitants of this Isle. They will happen in Manner sollowing:

The first is an invisible Eclipse of the Moon, and will happen on Saturday, the 9th Day of May, the Particulars of

this Lunar Defect are as follows:

Beginning 8 h. 38 m. Morning.
Middle 9 31
End 10 24

Digits eclipsed—2 deg. 54 min. on the Moon's northern Limb.

This Eclipse, although invisible to us, may be seen in all the western Parts of both North and South America. The Inhabitants also of the Philippine Illes, New Holland, Japan,

&c. may view the Whole of this Defect.

The Second will be an invisible Eclipse of the Sun, and will happen on Sunday, May the 24th; at 20 Minutes and a half past Ten at Night. Although this Desect will be totally invisible to us, the Sun will be centrally eclipsed on the Meridian at 10 Hours 18 Minutes in Long. 154° 29' West, and South Lat. 11° 15'.

The third will be an Eclipse of the Moon, and visible to the Inhabitants of Great Britain; take the Type and Calcula-

tion as follows,



Beginning Nov. 2. at 11 h. 28 ½m Night.

Middle Nov. 3. at 0 32½ Morn.

End Nov. 3. at 1 36½ Morn.

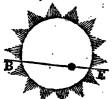
Digits Eclipfed 3 deg. 40 min. on the

Moon's Southern Limb.

This Defect will not only be visible to the Europeans and the Inhabitants of Africa, but likewise to the Western Parts of Asia, and the Eastern ones of America; but the Moon will set before the Eclipse is over to the Inhabitants of China, Chinese Tartary, and those Parts. The Fourth and last in the Course of this Year, will be an Eclipse of the Sun, which will happen on Tuesday the 17th of November, at 24 Minutes past 3 in the Morning, and consequently, invisible to us. It will however be centrally eclipsed on the Meridian, in Long. 129 deg. 31 min. and 14 deg. 45 min. North Lat. at 3 hours 22 min. Morning. It will therefore be visible in China, Japan, and the Eastern Part of Tartary in Asia.

We next in the Course of this Personmance, take this Opportunity to acquaint our Readers of a Transit of Mercury over the Sun's Disc, which, according to the best Astronomical

Tables, is this Year expected to happen as follows,



Beginning Nov. 5, 1 h. 10 m. aft.
Ecliptic conjunction 3 30
Middle of the Transit 3 37
Sun fets 4 40
End or Egres 6 4
See a Type of the Transit in the Mar-

We must further observe, that at the latter End of the Year 1788, or the Beginning of this Year, a Comet is expected to make its 'Appearance to the Inhabitants of this Terrestrial Globe; but as the Laws and destined Times of these Wanderers through immense Space are not yet determined, for want of better Observations, and more in Number than we have received from the Ancients; we must, after collecting all the Data we can, in order to acquire a better Knowledge of their Motions, leave Posterity to finish what this enlightened Age has already so far advanced.

Whoever has noticed this History of the various Chances and Changes in this transitory World, will scarce find any great Mutation in Empires or States, to which the Historian has not prefixed either a Comet or a total Eclipse, as a Warning from Heaven, of some great Calamity that was upon the Point of wishing the Children of Mortality. Hence the blazing Star, with its stery Tail, was not looked upon as a solid, durable Substance, moving in stated Times about the Sun, but as Beacons of the Fire of consuming Vengeance, lighted up in the Heavens, as Tokens of the divine Wrath, or as the Angels in the Apocalypse, pouring down their Vials of Destruction

tion, or founding an Alarm upon the Trumpet of Desolation, to remind them of the Woes that were yet to come. This being done, they, disappearing, left Mankind convinced within themselves that, having performed their Task, they had retired according to the Will of him who sent them, and, like unwelcome Guests, Men were glad when they had got rid of them.

Later Astronomers have however fully convinced the World, that they are Bodies moving in Orbits vaftly elliptical; that the Sun is in one of the Foci, and near to its Orbit, the other at an immense Distance beyond the Orbit of Saturn; according to which Hypothesis, they must sometimes be much hotter than Mercury, and at others far colder than the dreary Planet before mentioned. Martin tells us, from the best Authorities he could process, that although the Number of Comets which perform their mystic Dance around the solar System, is perhaps not yet ascertained, yet the Number that has been observed, and fallen under the Notice of Astronomers, is about 39, though it is probable, and not impossible, that there may be. many more belonging to this System. That the stated Periods of Time, in which they move about the Sun, are various, and many of them at prefent unknown to us. That which appeared in 1680, bath its Period in 575 Years, that in 1661 hath its Period in 129 Years, and that of 1682, hath its Period the fhortest of all, viz. in 75 x Years. As to the End for which the stupendous Wanderers have their Courses determined in this furprizing Manner, infomuch that the Comet in 1680 was computed to be not a fixth Part of the Sun's Diameter distant from its Surface, and therefore its Heat 2000 Times hotter than red hot Iron; and again after taking his Course from the Sun to the distance of more than 11,000,000,000 Miles, the Light and Heat of that same Comet was then about 17,000 Times less than with us. However different the Sentiments of Men have been upon this Subject, the best is but Conjecture, and we can only say, that the Secrets of the Lord are unsearchable, and his Works are past finding out.

As to the Comet in Question, I shall only add from the best Authority, that the Comet of 1531, 1607, and 1682, having returned in the Year 1759, according to Dr. Halley's Prediction, there is no Reason to dowbt but that all the other Comets will return after their proper Periods. Accordingly, Astronomers have generally acquiesced in the Conjecture that the Comets of 1532 and 1661 were one and the same, and to expect

expect in Return in 1789, or the latter End of 1788; however, not later than the 27th of April 1789.

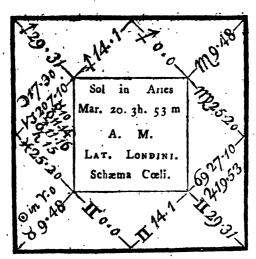
One Question (it occurs to me) will naturally occur likewise to several of my curious Readers, unasquainted with the Cofestial Science, which is this; Is there any Danger to be expected from the Approach of a Comet I answer Yes, there may be a cr it may be otherwise. The Truth is, that these are great and rare Events, (as one wisely observes) and although they are possible in Nature, yet some Things make it a very great Chance if they happen at all with regard to any definite Time. For the Plains of all the Comets Orbits are raised above those of the Planets; so that there is but one particular Place, in the Orbit of a Comet, where its Tail can pass over the Orbits of the Planets; and it is so many Chances to one. that a Planet happens to be in that Part of its Orbit, at that particular Time, that we have no Reason to fear any such Catastrophe. And (he further adds) they who have talked about fuch terrible Things, may rather be faid to dream, than to have demonstrated any such future Events. Having but one Page more, for those who look upon the Aspects of the Planets as Forerunners of future Events, we here conclude our Obfervations upon this Subject, with Part of the oth Ode of Horace; Vides ut alta, &c. as translated by Mr. Congreve.

'Tis Heav'n's Concern, and let it be The Care of Heaven hill for me: Those Winds which rend the Oaks, and plough the Seas Great love can, if he please, With one commanding Nod appeale.

Seek not to know To-morrow's Doom; That is not ours which is to come. The present Moment's all our Store: The next should Heav's allow, Then this will be no more: So all our Life is but one Inflant now.

ASTROLOGIC Observations for the Year 1789;

On the 20th of March, at 3h 53m A. M. the coeleffial Charioteer enters the first Scruple of Aries, from whence our Spring Quarter commences; and a Figure of the Heavens. according to the Rules of ancient Aftrologers Juncture, you have as follows. Digitized by Google



Here is the Scheme of the Heavens at the Sun's Ingressiato the celestial Aries, calculated to the greatest Exactness, and lies open to all who have either a Value for, or Judgment in that ancient Science of Astrology, which formerly sat at the Head of all others, and to which the others were only looked upon as subservient; but at this Day is sunk so low, as to be a Laughing-stock to Fools, and detested by the Incredulous. Such is the Fate of all human Things. It must however be allowed, that it takes a great deal of Learning to make a good Astrologer; and the old Verse of course may be true:

Heav'n is a Book; the Stars are Letters fair; God is the Writer, Men the Readers are.

This in my Opinion is not the Year when Peace shall wave her Olive Branch over the whole Globe; I rather think there will be Discords, Bloodshed, and Revolutions in divers Places; but there is a Hand unseen which brings Good out of Evil; and private Calamities shall at last produce a public Good. The Almighty works by Ways inscrueable to Men, yet I sincerely believe there is working in this our Day, under the Hand of Providence, a grand Scheme which will close in suffil ing all the Prophecies from Adam to Malachi.

Whether the MOON be HABITABLE.

(CONTINUED from LAST YEAR.)

But what kind of Creatures these Lunar Inhabitants are, is not agreed upon, though Kepler be something positive, Concludendum videtur (says he, in Not. ad Appendic. Selenograph.) in Luna Creaturas esse viventes, Rationis, ad Ordinata facienda, Capaces. The like is affirmed by him as to the other Planets; nay, the Sun itself, touching which last, in the Epilogue to his Fifth Book, De Mundi Harmonia, he breaks out into this Expression, Vel Sensus ipsi exclamant, ignea hic habitare Corpora, Mentium Simplicium Capacia, vereque solem esse successioned.

fi non Regem, at Saltam Regiam.

This cannot perhaps seem more strange to some, than the following Assertion to others, which maintains the Moon to be the Paradise wherein our first Parents were created, and from whence, for their Transgression, they were thrust down to this Earth of ours; and yet this from Reason and the Authority of Fathers and Schoolmen, is endeavoured to be proved by Hieronymus Vitalis Lexic. Mathemat. in voce Paradisus; where he says, fateor id novum, Singulare et hactenus inauditum; at non per hoc temerarium, at que intolerabile dixeris; for, as he urges, modò partà tanta rerum Noticia, Luna sacie Telescopio penitssimè observata, veterum dictis Expensis, Locis (super hanc Terram) investigatis, Paradisum in Lunæ superficie collocare, Ratio ipsa compellet. To whose large Discourse upon that Subject we refer the Reader.

MERCURY.

The next Planet in Order is Mercury; of whose Place, Figure, Nature, and Substance, something, according to our Me-

thod, is briefly to be added.

It is carried in an Epicycle about the Sun, as the Center of its Motion and Oth: Now running above, now beneath the Sun; fometimes higher than Venus, fometimes lower; for when the two Planets (Venus and Mercury) are in their Apogoa, and above the Sun, then Mercury is beneath Venus; when in their Perigoa, and beneath the Sun, then Mercury is above Venus: So when Venus is in her Apogoaum, and Mercury in his Perigoaum, then is he beneath Venus; when Venus is in her Perigoaum,

Perigocum, and Mercury in his Apogocum, then is he above Venus, as may appear by the Egyptian and Tychonick Systems.

Its Figure is orbicular or round, not mathematically, but physically such, rising here and there with extuberating Hills and Mountains, in the same Manner as this earthly Globe of ours; being, like that, an opacous Body, and receiving its Il. lumination from the Sun; whence at several Times it is seen under several Phases or Appearances; for in its greatest Digression from the Sun, (which is never above 28°) it appears dichotomous; but when he is retrograde, and approaching to an Opposition with the Sun, he appears in a Figure like that of the New Moon, when distant about 60° from the Sun; though this Phasis be very rarely discerned by reason of his small Digression from the Sun, and the quick Vibration of his Rays, the Vivacity of his Light exceeding that of Venus and Jupiter, and thence impeding the Sight from rightly beholding that Phenomenon, unless fortified by an excellent Telescope, as likewise in regard of the great Refractions made by Vapours near the Horizon, especially in Climates more obliquely pofited, as is noted by Regiomontanus and Copernicus, who for that Reason could never be so happy as duly to observe these mercurial Phases. Ricciolus reports that he, together with Franciscus Maria Grimaldi, in the Year 1643, the Fifth of March, when Mercury was in the upper Part of his Epicycle, and vespertine at 15° of Elongation from the Sun, beheld him in a gibbous Figure, like the Moon when more than half full: the like in the Year 1656, December 16. In the Year 1643, August 25, the same Persons beheld him being matutine, and 19° distant from the Sun, in a Figure like that of a Sickle or Scythe; so likewise in the Year 1644, August the 6th, being distant from the Sun 200. But in the Year 1647, April 30, being vespertine, and distant from the Sun 200, they beheld him in a like Scythe-like Figure, but more approaching toward a Dichotomy. In the same Figure likewise they beheld him in the Year 1650, when vespertine, and distant 180 from the Sun. There are observed in him likewise several Spots fuccessively following one another, some Light, some duskith: which light Spots are by Kircherus conceived to be the faid terrestrial and mountainous Parts of the mercurial Globe illuminated by the Sun, the dusky ones to be the liquid or watery Parts thereof, which, by their successive Motion, likewise evince that he hath a vertiginous Rotation about its own Axis, de:ermined

determined within the Space of fix Hours, or thereabouts, as Rheita affirms.

As to its Distance from the Earth, the same is by Tycho computed to be in its greatest Distance 1660 Semidiameters of the Earth, in its mean Distance 1150, in its least 630; but according to the Calculation of Ricciolus, in its greatest Distance 10868 Semidiameters, in its mean 8057, in its least 5246.

Its apparent Diameter in its mean Distance is by Tycho computed to be 2' 10", by Ricciolus in its greatest Distance to be

only o", in its least Distance 25".

Its true Magnitude, according to Ricc olus (supposing its mean Distance to be as before expressed, and its Diameter to contain \(\frac{1}{4} \) Part of the Earth's Diameter) is concluded to be less than the Earth's Body by \(\frac{1}{356} \) Part. Which being reduced to the Measures of Kepler, its Diameter may be reckoned to contain 377 Italian Miles, the Solidity of its Body 21253933 cubical Italian Miles, or thereabout.

VENUS.

The most illustrious of all the lesser Planets, hath been obferved by the Curious from all Antiquity: the chief Remarks made by the Ancients are these: First, they observed her sometime to precede the Sun, rising in the Morning before him, sometime to follow the Sun, setting in the Evening after him, now to be in Conjunction with the Sun, that is in the same right Line drawn from the Observer's Eye, to the Center of the Sun, at other Times receding from him, to the Distance of 48 Degrees; and this was the First and most obvious Phenomenon.

They observed her likewise to differ in Magnitude, appearing sometimes greater, sometimes less, sometimes of a mean or middle Size, whence they concluded her to approach sometimes nearer to the Earth, and to be in Perigoco, at other Times to recede surther from it, and to be in Apogoco; and this was the Second Phenomenon; but not commonly observed or obvious to all.

As to her rifing and fetting, they observed that she was never so remote from the Sun as that she ever set cosmically, or rose acronychally; that is, that she (the Sun rising in the Eastern Horizon) never set at the same Time in the West, or (the Sun setting in the West) never rose at the same Time in the East; for Venus cannot be opposed diametrically to the Sun, in regard she

the never digreffes from him above 48°, or thereabout: whence Venus riting in the Morning heliacally, that is, emerging out of the Sun's Beams, under which the lay hid, digreffes more and more from him, and (he riting) appears higher and higher above the Horizoo, until the comes to the Terms of her greatest Digreffion aforefaid, thence reapproaching the Sun, is hidden in the Morning heliacally, that is, is obscured under the Sun's Beams, until such Time as emerging heliacally in the Evening, the rifes (the Sun setting) higher and higher above the Horizon, until the comes to the aforesaid Terms of her greatest Elongation; which past, the again approaches toward the Sun until such Time as in the Evening the sets heliacally. And this is the third Phenomenon, observable by all, but noted only by the Curious.

Besides these Observations of the Ancients, modern Astronomers, by the help of the Telescope, have noted several other signal Phenomena, as that she is liable to the same Variety of Changes as the Moon, fometimes almost full, at other Times gibbous, and now and then horned, as well when she is vespertine as matutine, manifested by the various Observations of Galilæo, Scheinerus, Fontana, Hortenfius, Keplerus, Rheita, Gassendus, and Hevelius. She is sometimes likewise seen by Day, at which Time, according to Gal læus and Hevelius, her true Figure is best to be discerned, in regard she is despoiled of those adventitions Rays with which in the Night Time she is invested. Ricciolus and Grimaldus, in the Year 1649, on the first of April beheld her of a gibbous Figure; and on the 20th of the same Month bisected or dichotomised; and on the First of May, and First of September the same Year, horned, and so continued until the fourth Day, two Hours after Noon, and so to the eighth Day of the same Month, from the Sun's rising till Noon. On the 18th she was exactly b sected or dichotomised; on the 26th growing toward a gibbous Figure. rarest and most figual Phenomenon of Venus (says Ricciolus) is when the hath greatest Latitude, near her lowest Conjunction with the Sun; for being then feen by a good Telescope, the appears he rned, as big as the New Moon to the bare Eye.

ΆΤΛΑΣ ΟΥΡΑΊΝΙΟΣ,

The COELESTIAL ATLAS;

R P H E M E R I S

For the YEAR of our LORD 1789.

Being the first after

BISSEXTILE, or LEAP-YEAR.

Wherein are contained

The Heliocentrick and Geocentrick Places of the Planets, the ECLIFSES of the Luminaries, and other remarkable PHENO-MENA that will happen this Year,

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Adapted to the

Meridian and Latitude of the ancient and honourable CITY of LONDON.

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By ROBERT WHITE TO TEACHER of the Mathematicks.

Ot Leavel Singertat Sofar Ose.

The Fortieth Impression.

LONDON:

Printed for the Company of STATIONERS; and fold by ROBERT HORSFIELD, at their Hall, in Ludgate-street.

[Price NINE-PENCE stitched.]

White.

Chronological Notes for the Year 1789.

Cycle of the Sun 6 The Epact 3 Dominical Letter - D Number of Direction - 22	Septuagetima Sunday Feb. 8 Shrove Sunday - 22 Eafter Day - April 12 Whit Sunday - May 31 Trinity Sunday - June 7 Advent Sunday - Nov. 29
--	---

Astronomical CHARACTERS explained.

Altronomical Ch	ARACTER'S Capitallicus
or Aries or Taurus or Gemini or Gemini or Cancer or Leo or Virgo	m Scorpio f Sagitary M Capricorn M Aquarius M Pifces
† Saturn ⊙ Sol (the Sun) 14 Jupiter ♀ Venus 15 Mars ♥ Mercury	D Luna(the Moon) Tellus Moon's N. Node Terra (or the Earth)
Continuation when Planete	are in the same Sign, Deg. Min. &c t. \(\times \) Trine when 4 Signs dist. st. 8 Opposition when 6 Signs dist

Of the Four Quarters of the YEAR 1789.

					, ,	
Profes				ď	h	m
HE Spring Quarter begins	· •		- March	20	3	53 thorn.
The Summer Quarter begins	•		- June		Ī	55 morn.
The Autumnal Quarter begins			September			28 aftern.
The Winter Quarter begins	•	•	December	21	7	59 me-1.
					- 1	

THE beautiful Planet VENUE will be a Morning Star 'till May the noth; and after that Time she will be an Evening Star to the Year's End.

JUNITER will be a Merning Star 'till the 14th Ray of January, then an Evening Star till the 2d of August, at which Time he became a Morning Star, and so continues to the Year's End.

The NAMES of the Learned JUDGES of the LAW.

I. The Right Hon. Lord Thurlow, Lord High Chancellor.

Right Honourable Sir Richard Pepper Arden, Knt. Mafter of the Rolls.

II. In the Righ H n. Lord Kenyon, L. C. J. Si W. H. Afaurst, Kut. K. Bench. Francis Buller, Efg; Sir Nath Grofe, Knt.

III. In the ? R. H. Alex. Lord Loughborough, L. C. J. Sir Henry Gould, Knt.

C. Pleas, John Heath, Efq; Sir John Wilson, Knt. IV. In the ? Sir James Eyre, Knt. L. C. B. Sir Beaumont Hotham, Knt.

Exchequer Sir Richard Perryn, Knt. Sir Alex. Thompson, Knt.

Sir Alex, M'Donald, Knt. Atto., General; Sir John Scott, Knt. Solic, Gen.

A TABLE of TERMS and Returns for the Year 1780.

Hilary Term begins Jan. 23, ends Feb. 12. Returns or Effoign-days, Exc. Ret. Ap. In eight Days of St. Hilary, an. 20 Friday 2 I 22 23 In fifteen Days of St. Hilary 28 Friday 27 29 30 On the Mar. of the Purif. of the Bl. V. M. Feb. 2 In eight Days of the Purif. of the Bl. V. M. Tourf.

Easter Term begins April 29, ends May 25. In fifteen Days of Easter April 26 |27 | 28 29 Wedn. 6 From Eafter Day in three Weeks 3 5 Wedn. From Eafter Day in one Month 10 12 13 Wedp. From Easter Day in five Weeks 17 18 19 20 Wedn. On the Mor. of the Ascention of the Lord 22 23 25 Monday 24

Trinity Term begins June 12, ends July 1.

On the Morrow of the Holy Trinity,	- Jun	e 8	9	10	12	Friday.
In eight Days of the Holy Trinity,		14	15	16	17	Ween.
In fif een Days of the Holy Trinity,		21	22	23	24	Wedn.
From he Doy of the Holy Trin in 3	Weeks,	28	29	. 30	h	Wedn.

Michaelmas Term begins Nov. 6, ends Nov. 28.

On the Morrow of All Souls	-	• · •	No	V. 3	4	5	6	Friday, Mond. Saturd. Saturd.
On the Morrow of St. Martin	-	-	-	12	13	14	-16	Mond.
In eight Days of St. Martin	-	-	-	18	Ϊ́g	20	21	Saturd.
In fi teen Days of St. Martin	-		-	25	26	27	28	Saturd.
In fi. teen Days of St. Martin	-		•	25	26	27	İ	28

N. B. No Sittings in Westminster-Hall on the Second of February. Ascension-day, and Midsummer-day.

The Exchequer opens eight Days before any Term begins, except Trinity, the which it opens but four Days.

Note, The first and last Days of every Term, are the first and last Days of App arence.

BIRTH-DAYS of the ROYAL FAMILY.

KING GEORGE III. June 4.	1728 1	Prince Aug. Fred. Jan. 27,	1773
Prince of Wales, Aug. 12,		Prince Adolph, Fred. Feb. 24,	
Prince Frederick, Aug. 16,		Princels Mary, April 25, -	1776
Prince Wm. Henry, Aug. 21,	1765	Princess Sophia, Nov. 3, -	1777
Pre. Cha. Aug. Mat. Sept. 29,	1766	Princess Amelia, Aug. 7, -	1783
Prince Edward, Nov. 2, -			1744
Prs. Augusta Sophia, Nov. 8,	1768	Prs. Augusta of Brun. Aug. 11,	1737
		Duke of Gloucester, Nov. 25,	
Prince Erneft Augustus, June 5,	1771	Duke of Cumberland, Nov. 7,	1745

Sovereigns of Europe, their Accession, &c.

Kingdoms, &c.	To whom subject.	When b	orn.	Began to	∢eign.
England, &cc.	George III.	June 4,	1738	Oct. 25,	1760
France	Lewis XVI.	Aug. 23,	1754	May 10,	1774
Ruffia	Catharine II.	May 2,	1729	July 9,	1762
Spain	Charles III.	Jan. 20,		Aug. 10,	1759f
Portugal	Mary	Dec. 7,	1734	Feb. 24,	1777
Pruffia	Frederic IV.	Sept. 25,	1744	Aug. 17.	1786
Denmark & Norway	Christian VII.	Jan. 29,	1749	Jan. 14,	1766
Sweden ·	Guffavus III.	Jan. 24,	1746	Feb. 13,	1771
Germany	Joseph	Mar. 13,	1741	Aug. 18,	1765
Poland	Staniflaus III.	Jan. 17.	1732	Nov. 25,	1764
Holland	William V.	March 8.	1748	Oct. 11.	1751
Popedom	Pius VI,	Dec. 27,		Feb. 18,	1775
Sardinja	Victor	June 26,		Mar. 20.	1773
Ottoman Empire	Achmet IV.	Nov. 5,	1719	Jan. 21,	1774

The Full Weight of the Coins, with the Least Weight allowed to pass of the Gold Coin.

Wt. allowed.	Foll Wt.		Full Wt.
GOLD. dwt. gr.	dwt. gr.	SILVER.	dwt. gr. 👌
Guinea, 5 8	5 943	A Crown,	19 814
Half Guinea, - 2 16	2 1654	Half Crown, -	9 16.
Quarter Guines, 1 8	¥ 832	Shilling,	3 2038
••	89	Six Pence,	1 22 34

According to the above proportions it appears, that the value of a lb. of filver is 62 s. or 31. 2 s. and of a b. of gold is 44 \frac{1}{2} guineas. or 461. 14 s. 6d. Also that the cz. of filver is 5 s. 2d. and the cz. of gold 31. 17 s. ro\frac{1}{2}d. So that the value of the standard gold is 15 times that of the filver, and 1-14th more.

A TABLE of the Kings and QUEENS, of ENGLAND fince the Conquest.

		r Reig	n	Y.	M.	D.	e	and Dethroned	Where buried
1057	1087	Sept. Aug.	9	12	10 3	24.	1.3	tally.	Caen, Norm Winchester Reading Feversham
1156 1165 1207 1239 1284 1312	1189 1199 1216 1272 1307 1327	July April Oct. Nov. July Jan.	6 6 19 16 7 25	9 17 56 34 19 50	8 9 6 0 7 6 4 3	1: 28	43 50 59	Slain with an Arrow. Dep. & murd.	Fonteveraud Fonteveraud Worcester Westminster Westminster Gloucester Westminster Westminster
1389	1413 1422	Mar. Aug.	20 31	38	5 5 6	20 11 4	33 49 41	Dep. & murd.	Canterbury Westminster Windsor Windsor
				0 2	2	15	12	Murder'd. Slain in Battle.	Not known Leicester
1492 1537 1516	1509 1547 1553	A pril Jan. July	22 28 6	37 6 5	8 9 5 4 4	6 8 11	5 55 15 42	heji e	Westminster Windsor Westminster Westminster Westminster
1600 1630 1633 1662 1650 1665	1625 1649 1685 1689 1689 1702	Mar. Jan. Feb. Feb. Feb. Mar. Aug.	3° (13 13 8	36 4 5 13 12 12	4	15 23 24 10	3 ² 5 ² 49	DE DALL	Westminster Windsor Westminster St. Germain Westminster Westminster Westminster Hanover Westminster
	1057 1068 1133 1156 1165 1207 1239 1284 1382 1386 1387 1389 1441 1442 1471 1443 1456 1492 1553 1566 1600 1633 1665 1665	1057 1087 1068 1100 1105 1135 1139 1155 1139 1207 1216 1237 1366 1377 1367 1399 1413 1421 1422 1442 1442 1509 1537 1553 1558 1566 1603 1600 1625 1665 1702 1666 1702	1207 1216 Oct. 1239 1272 Nov. 1284 1307 June 1362 1327 June 1367 1399 Sept. 1389 1413 Mar. 1421 1422 Aug. 1442 1461 Mar. 1471 1483 April 1443 1483 June 1456 1485 Aug. 1492 1509 April 1537 1547 Jan. 1516 1553 July 1533 1558 Nov.	1057 1087 Sept. 9 1068 1100 Aug. 2 1105 1135 Dec. 1 1133 1154 Oct. 25 1156 1189 July 6 1165 1199 April 6 1207 1216 Oct. 19 1236 1272 Nov. 16 1237 1399 Sept. 29 1380 1413 Mar. 26 1387 1399 Sept. 29 1380 1413 Mar. 26 1421 1422 Aug. 31 1442 1461 Mar. 4 1471 1483 April 9 1443 1483 June 22 1496 1485 Aug. 22 1496 1485 Aug. 22 1496 1485 Aug. 12 1537 1537 July 6 1533 1558 Nov. 17 1566 1603 Mar. 24 1600 1603 Mar. 24 1600 1603 Mar. 24 1633 1655 Feb. (1633 1685 Feb. (13) 1665 1702 Mar. 8 1666 1702 Mar. 1	1057 1087 Sept. 9 12 1068 1100 Aug. 2 35 1105 1135 Dec. 1 18 1133 1154 Oct. 2 53 1165 1189 July 6 9 1165 1199 April 6 17 1207 1216 Oct. 19 56 1230 1272 Nov. 16 32 1272 Nov. 16 32 1377 June 2 1 22 1366 1377 June 2 1 22 1367 1399 Sept. 2 13 1389 1413 Mar. 2 9 1421 1422 Aug. 31 38 1442 1461 Mar. 4 22 1471 1483 April 9 0 1443 1483 June 22 2 1456 1485 Aug. 22 23 1492 1509 April 22 37 1537 1547 Jan. 28 6 1553 1558 Nov. 17 144 1566 1603 Mar. 24 122 22 1369 1689 Feb. 13 1662 1689 Feb. 13 1665 1702 Mar. 8 12	1057 1087 Sept. 9 12 10 1068 1160 Aug. 2 35 3 1105 1135 Dec. 1 18 10 1133 1154 Oct. 25 34 8 1156 1139 July 6 9 9 1165 1199 April 6 17 6 1207 1216 Oct. 19 56 0 1230 1272 Nov. 16 34 7 1284 1307 July 7 19 6 1312 327 Jan. 25 50 4 1366 1377 June 21 22 3 1367 1399 Sept. 29 13 5 1389 1413 Mar. 20 9 5 1349 1412 Aug. 31 38 6 1442 1461 Mar. 4 22 1 1471 1483 April 9 0 2 1443 1483 June 22 2 2 1456 1485 Aug. 22 23 8 1492 1509 April 22 7 9 1537 1557 July 6 5 4 1533 1558 Nov. 17 44 4 1533 1558 Nov. 17 44 4 1533 1566 1603 Mar. 24 22 0 1660 1639 Feb. 13 13 0 1665 1689 Feb. 13 13 0 1665 1702 Mar. 8 12 4 1660 1714 Aug. 1 12 10	1057 1087 Sept. 9 12 10 24 1068 1160 Aug. 1 13 3 26 118 10 24 113 1154 Oct. 25 34 8 11 1156 1139 July 6 9 9 0 116 116 1199 April 6 17 6 12 12 12 12 12 12 12 12 12 12 12 12 12	1058 1087 Sept. 9 12 10 24 3 1068 1100 Aug. 2 35 3 29 1105 1135 Dec. 1 18 10 24 49 1133 1154 Oct. 25 34 8 11 5 1150 1139 July 6 9 9 6 42 1165 1199 April 6 17 6 12 50 12 7 1216 Oct. 19 56 0 28 56 1239 1272 Nov. 16 34 7 21 67 1284 1307 July 21 22 3 8 33 1367 1399 Sept. 25 13 5 20 46 1379 July 21 22 3 8 33 1367 1399 Sept. 25 13 5 20 46 1389 1413 Mar. 20 9 5 11 33 1421 1422 Aug. 31 38 6 4 49 1421 1483 April 9 0 2 15 12 1442 1461 Mar. 4 22 2 2 0 42 1456 1485 Aug. 22 23 8 0 5 1492 1503 April 22 37 9 6 55 15 1553 1555 July 6 5 4 11 42 1533 1556 1600 April 22 37 9 6 55 15 1553 1555 Mar. 24 22 0 2 58 1600 1625 Mar. 24 22 0 2 58 1630 1649 Jan. 36 0 7 54 1660 1649 Jan. 36 0 7 54 1665 1689 Feb. 13 13 0 23 52 1665 1690 Feb. 13 13 0 23 57 1660 1714 Aug. 112 10 10 67 10 10 10 10 10 10 10 1	1057 1087 Sept. 9 12 10 24 3 Slain accidentions 1106 Aug. 2 35 3 29 1105 1135 Dec. 1 18 10 24 449 1135 Dec. 1 18 10 24 449 1135 Dec. 2 34 8 11 5

Above you view the Rise and Fall of Kings, Whose Fate sometimes a useful Lesson brings. Well if all Men could profit from the past! Each know his Duty, each excel the last, And justly execute his stated Task.

A 3

A TABLE of the most Reverend, Right Reverend, and Reverend, the Archbishops, Bishops and Deans, exercising Ecclesiastical Jurisdiction, 1789.

Взанора.	Sees,	Date.		DEANS.
Dr. John Moore	Bangor		Ewer deceafed	
Arch-Bishop	Canterb, A. E	31783	Cornwallis dec.	Dr. Home
Dr. Will. Markham			Keene translat.	
Arch-Bishop	York A. B.	1777	Drummond de.	Dr. J. Fountayne
Dr. Beilby Porteus	Cb.ster	1776	Markham tran.	, ,
Di. Delley Forteus	London	1787	Lowth deceas.	Bishop Pretyman
Dr. Tho. Thurlow	S Lincoln	1779	Green dec.	
DI, INO. INSIIOW	Durham		Ezerion dec.	Hon. W. Digby
) ([Litch & Con		Egerton trai f.	
Hon. Dr. B. North	Worcester		Johnson deceas.	l
	Winchefter		Thomas decra!.	
Sir W. Ashburnham	Chichester		Mawfon trans.	Dr. Harward
Dr. Charles Mo.s	St. David's		L wth transl.	
DI CHAIRS MICH				Ld. Fr. Seymour
Dr. J. Shipley	S Landaff		Ewer tranfl.	10 mm m = 15 '
i ji sanpasy	St Alaph		Newcome dec.	Mr. W.D.Shipley
Dr. S. Barrington	S Lonnaff		Sh pley transl.	_
1	Salisbury		Hume cec.	Dr. John Ekins
Dr. John Hinchliffe	Peterboroug			Dr. Ch. Tarrant
	S:. David s		Moss trapsi.	
H, Dr. James Yorke	{ Gloucester		Warburton dec.	
	(Ely		Keene deceased	
Dr. John Thomas	Rochefter		Pearce dec.	Dr. Dampier
Dr. Richard Hurd			B. North tr.	D. C. 7
	Worcester		B. North tr.	Dr. St. John
Dr. John Butler	SOxf rd		Lowth transl.	D- 277 -1 11
n -	2 Hereford		Harley deceas.	Dr. Wetherell
Dr. John Rofs	Exeter		Keppel dec.	Dr. Buller
Dr. John Warren	Sr. David		Yorke transl.	De The II.
Dr. I. Cornwallis	Lingor		Moore trans.	Dr. The Lloyd
Dr. Samuel Hall fax	Gloucester			Dr. Proby
. L	Soucener Spriftol		Yorke transl. Newton dec.	Dr. Josiah Tucker
Dr. Lewis Bagot	Norwich		Yonge dec.	Dr. P. Lloyd
Dr. Richard Watf. n	Landaff		Barrington tr.	Dr. Adams, A.D.
	St. David	178	Warren trans.	Thams, A.D.
Dr. Edward Smalwel	Oxford	178	Butler tranfi.	Dr. Jackfon
Dr. Chrift. Wilfon	Briftol	7,7	Baget trans.	Dr. Hallam
Dr. W. Pretyn an	L ncoln		Thurlow trans	
Dr. John Douglas	Carlifle		Law dec.	Dr. Jeffery Ekins
Dr. William Cheaver	Cheffer		Porteins tran.	Dr. Cotton
Dr. Samuel Harfley			Smalwell tr.	Mr. Wollafton, P.
	Westminste	r 1768	}	Bishop Thomas
Dr. Claudius Crigan			Mason dec.	
1_	Windler	1788		Bishop Douglas
-		,	• •	Secue

A General Interest Table,

by which the Interest of any Sum, at any Rate, and for any Time, may be readily found.

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N. B. This Table contains the interest of 1001. for all the several slay in the 1st column, and at the several rates of 3, $3\frac{1}{3}$, 4, $4\frac{1}{2}$, and 5 pecent, in the other 5 columns.

To find the interest of 1001, for any The interest for 1 year 4 10 0 other sime, as 1 year and 278 days, Against 200 days is - 2 9 3 at 4½ per cent. Take the sums for 70 days - 0 77 3 the several days here annexed.

Interest required - 7 28

For any other Sum than 1001. First First, 3 times the above sum, find for 1001. as above, and take it so for 3001. is 43.25. as many times or parts as the sum is of \(\frac{1}{2} \) (for 501.) is 3 19 3. 1001. Thus, to find for 3551. at $4\frac{7}{2}$, of this (for 51.) is 0 7 1. for 1 year and 278 days, So for 355 it is 42.28 2 16.

When the interest is required for any other rate than those in the table may easily be made out from them. So $\frac{1}{2}$ of 5 is $2\frac{1}{2}$, $\frac{1}{2}$ of 4 is 2, $\frac{1}{2}$ of 3 is 1, 1-6th of 3 is $\frac{1}{2}$, and 1-12th of 3 is $\frac{1}{4}$. And so, by past or by adding or subtracking, any rate may be made out.

8

The LUNATIONS.

First quarter the 4th day, at 24 minutes past 4 afternoon. Full Moon the 11th day, at 46 minutes past 5 afternoon. Last quarter the 18th day, at 29 minutes past 8 morning. New Moon the 26th day, at 21 minutes past 6 morning.

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10 February hath XXVIII Days. White.

The LUNATIONS.

First quarter the 3d day, at a 5 minutes past 9 morning.
Full Moon the 10th day, at 8 minutes past 4 morning.
Last quarter the 16 h day, at 10 minutes past 10 night.
New Moon the 25th day, at 14 minutes past 1 morning.

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The LUNATIONS.

First quarter the 4th day, at 51 minutes past 10 night.
Full Moon the 11th day, at 50 minutes past 1 afternoon.
Last quarter the 18th day, at 15 minutes past 2 afternoon.
New Moon the 26th day, at 46 minutes past 6 afternoon.

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The LUNATIONS.

First quarter the 3d day, at 30 minutes past 8 morning.
Full Moon the 9th day, at 24 minutes past 11 night.
Last quarter the 17th day, at 50 minutes past 7 morning.
New Moon the 25th day, at 57 minutes past 9 morning.

M, Sundays & other O O O's D's D rifes D Clock													
D	remark. days	O rifes	let s	declin	declin.	D rifes	South	bef. O					
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9	Maundy Th.	5 17	6 43	7 51	8 45	(rifes	11 57	1 26					
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The LUNATIONS:

First quarter the 2d day, at 2 minutes past 3 afternoon.
Full Moon the 9th day, at 22 minutes past 9 morning.
Last quarter the 17 h day, at 44 minutes past 1 morning.
New Moon the 24th day, at 20 minutes past 10 night.
First quarter the 31st day, at 44 minutes past 7 night.

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M	Sundays & other remaik. days	rifes	(ets	0,	D's	D rifes	_	Clock
_			8731	declin.		& lets	South	aft. ⊙
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_5		4 20	7 31	16 27	1 8 54	2 17	8 57	3 36
6	St. John A.P.L.	4 27	7 33	16 44	6 5.	2 42	9 49	3 41
7		4 25	7 35	17 1	11 39	3 7	10 43	3 46
8		4 24	7 36	17 17	15 37	3 37	11 3 ⁸	3 49
9		4 22	7 38	17 33	18 38	C rifes	morn	3 53
2	4 S. af. Eafter	4 21	7 39	17 48	20 30	9 2 17	0 33	3 55
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	Old May Day	4 18	7 42	18 19	20 39	10 56	2 22	3 59
13		4 16	7 44	18 33	19 7	11 35	3 14	4 0
14	,	4 14	7 46	18 48	16 41	morn	4 4	4 1
15		4 13	7 47	19 2	13 35	0 5	4 5i	4 0
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18	Rogation Sun.	4 10	7 50	19 29	5 59	0 51	6 19	3 58
		4 9	7 51	19 42	1 47	1 10		3 56
19	Q. Charlott. b.	Dunft.	7 53	19 55	2 n 31	1 30		3 54
20		4 6	7 54	20 8	6 46	1 50	8 2.	3 50
21	Afe H. Thurf.	4 5	7 55	20 20	10 50	2 11	9 9	3 47
22	Pre. Eliz. b.	4 3		20 32	14 30			3 42
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The LUNATIONS.

Full Moon the 7th day, at 17 minutes paft 8 night. Last quarter the 15th day, at 5 minutes past 7 night. New Moon the 23d day, at 5 minutes past 8 morn.ng. First quarter the 29th day, at 16 minutes past 12 night.

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M	Sundays	& other			(1 0) 'r) .•		rifes	1	D	Ci	ock
D	rémark	. days.	rif	85	ſe	te	de	clin.	de	clin.	å	(ets	So	uth	aft	. 0
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The LUNATIONS.

Full Moon the 7th day, at 31 minutes past 8 morning. Last quarter the 15th day, at 21 minutes past 11 morning. New Moon the 22d day, at 1 minute past 4 afternoon. First quarter the 29th day, at 20 minutes past 6 morning.

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White.

The LUNATIONS.

Full Moon the 5th day, at 27 minutes past 10 night. Last quarter the :4th day, at 5 minutes past 2 morning. New Moon the 20th day, at 18 minutes past 11 night. First quarter the 27th day, at 14 minutes past 3 afternoon.

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The LUNATIONS.

Full Moon the 4th day, at '7 minutes past 2 afternoon. Last quarter the 12th day, at 54 minutes past 2 afternoon. New Moon the 19th day, at 6 minutes past 7 morning. First quarter the 26th day, at 48 minutes past 3 morning.

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White.

The LUNATIONS.

Full Moon the 4th day, at 5 minutes past 7 morning. Last quarter the 12th day, at 37 minutes past 1 morning. New Moon the 18th day, at 19 minutes past 4 afternoon. First quarter the 25th day, at 8 minutes past 8 night.

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The LUNATIONS.

Full Moon the 2d day, at 22 minutes past 12 night. Last quarter the 10th day, at 30 minutes past 10 morn. New Moon the 17th day, at 29 minutes past 3 morn. First quarter the 24th day, at 42 minutes past 3 afternoon.

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The LUNATIONS.

Full Moon the 2d day, at 39 minutes past 4 afternoon. Last quarter the 9th day, at 17 minutes past 6 afternoon. New Moon the 16th day, at 43 minutes past 4 afternoon. First quarter the 24th day, at 11 minutes past 1 afternoon.

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N the course of this year there will happen four eclipses, two of the Sun, and two of the Moon; as follows:

I. May 9th, (eclipfed, invifible. h m

Beginning — 8 38 morning.

Middle — 9 31

End — 10 24

Digits eclipsed 2° 54' on ('s northern limb.

II. May 24th, @ eclipsed, invisible.

The d at 10 b. 20½ m. in longitude 2° 4° 3'; the ('a lat. 30' ½ S

The @ will be centrally eclipsed on the meridian at 10 h 18m in lon

154° west, and lat. 11° ½ South

III. Nov. 2d, (eclipsed, visible. h m

Beginning — 11 27½ night.

Middle — 12 3½

End — 13 36½

Digits eclipsed, 3° 40' on ('s southern limb.

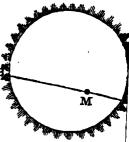
IV. Nov. 16th, @ ectipled, invifible.

The Ø at 15 h 29 m in long. 7° 25° 16', the D's lat. 33' 1
The Ø will be centrally eclipsed on the meridian, 15 h 22 m in long. 129° 1 east, and lat. 14° 3 north.

TRANSIT OF MERCURY.

There will this year be a transit of the planet Mercury over the disc of the san, on Nov. 5, beginning at 1 h 10 m. afternoon, when & slat. is 9 to 4 m. afternoon, when & slat. is 5 to 4 m. afternoon, when & slat. is 5 to 4 m. afternoon, when & slat. is 5 to 4 m. afternoon, when & slat. is 5 to 4 m. afternoon, when & slat. is 5 to 4 m. afternoon, when & slat. is 5 to 4 m. afternoon, when & slat. is 5 to 4 m. afternoon, when the slat.

Obliquity of the Ecliptic.



Equation of the Equinoctial Points.

Jan. 1. 23° 27' 55".8 - - - + 16".4 April 1. 23 27 55.0 - - - + 15.8 July 1. 23 27 54.1 - - - + 15.0 Oct. 1. 23 27 53.3 - - - + 14.1 Dec. 31. 23 27 52.6 - - - + 13.1 1789.

Time of High-Water at London in the morning and afternoon of every day in the year.

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1	M JANUARY FEBRUAR							RY	11_	MA	RC	H	11	A	PRI	L	X	
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This '	Table	may	ferve the	following	Places,	Ьy	adding
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Fer Tinmouth Haven, Hartle-pool, and Amfterdan		
Breft	- I	0
Scilly — — — — — — -	- 1	45
Mount's Bay	- 1	55
Bridlington Pier and Humber	- 2	0

C

Time of High-Water at Lowdon in the morning and afternoon of every day in the year.

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Z		M	Y		4	Ju	N E		١.	Ju	LY	{	1_4	Ave			Mo.Days
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Adding		h m
Fer Fowey, Loo and Plymouth	-	3 10
Dartmouth, Harborough and Hull -	_	3 30
Torbay and Tinmouth		3 40
Exmouth, Topsham and Lime -	-	3 50
Weymouth	-	4 20
Bridgewater and Texel	_	4 40
Portland and Hartflew	-	5 150

Time of High-Water at London in the morning and afternoon of every day in the year.

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SEPTIMBER OCTOBER morn. aktern. morn. aftern. h m h m h m 111 53 0 15										NOVEMBER D						ER	Mo.Days
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21	3	30	3	47	3	56	4	13	4	_	5	14	4	55	5	12	21
22	4	36	4	25	4	36	4	57		. 5 5	5	56		30	5		22
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l							St	btra	Ring						h	1 n	. 1

Subtracting

For Leigh, Maes, and Gouries Gut — 0 5
Gravesend, Rochoster, and Rammekins — 1 20
Buoy of the Nore and Flushing — 1 30
Portsmouth, Ostend, Shoe-Becon, and Red-Sand — 2 0
Harwich, Dover, Spithead, and Calais — 3 0
Gunsteet, Hastings, Shoreham, Orfordness, and Diep — 4
Varmouth Pier and Needle — — 4
St. Helen's and Havre-de-Grace — 5 30

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The Eclipses of Jupiter's Satellites will not be visible this month. Jupiter being too near the Sun.

The Eclipses of the Satellites of Jupiter will be visible this month, Jupi ter being too near the Sun.

AUGUST

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The Times of the Eclipses contained in this Table, are adapted to the Meridian of the Royal Observatory at Greenwich, and afford an excellent Method to discover the Longitude, or Difference of Meridians, between that and any other Place; which I shall illustrate by an Example:

Suppose on the 28th Day of December of this Year, the Time of the Immerfion of Jupiter's first Satellite be observed (by a Telescope) in an unknown
Meridian, to happen at 4 h, 11 min. 56 fec. at night; I find by the
Table, that the Time of this Immersion will happen at the British Observatory, at 2 h. 23 min. 36 fec. the same day: The Difference of the
Times is 1 hour 48 min. 20 fec. which being converted into Degrees and Minutes of the Equator, will make 27 deg. 5 min. the Longitude of the
Place of Observation, to the East, because the Time is more than that at the
British Observatory.

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Jura	August	SEPTEMBER
fationary fin perigeo fin perigeo fin perigeo fin perigeo fin perigeo fin perigeo fin perigeo fin perigeo fin fationary fin apogeo fin apogeo fin fin fin fin fin fin fin fin fin fin	2 d O 24 12h.	4 6 h (19h. 9
Остовка	November	DECEMBER
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A Table of the Sun's semi-diurnal Arches, or Times

The Sun's Declination North.

I he son a Decimation Porth.												
Degr.	Lat	· 49	Lat.	50	Lat.	51	Lat	. 52	Lat.	53	Lat.	54
· -	h	m	h	m	h	·m	h	m	h	m	h	m
0	6	4	6	4	6	4	6	4	6	4	6	4
. 1	6 6	4 8	6	4 8	6	· 8	6	•	6	9	6	9
2		12	6 6 6	13	6 6 6 6	13	6	9	6	14	6	4 9 15 29
3	6	17	6	18	'6	13	6	19	6	19	6	29
3 4 5 6	1	17 22	I	22		22	6	24	6	19 25	6 6 6 6	25
5	6 6 6	26	6 6 6	27	6 6 6	27	6	29	6 6	30 36 41	6	31
	6	31 36	6	32 37	6	33	6 6 6	34	6	36	6	37
7 8	6	36	6	37	6	38	6	34 40	6	41	6	43
8	6	41	6	42	6	43	6	45	6	47	6	48
9 10 11	·	45		47		33 38 43 48		45 50	6	52	6 6 6	37 43 48 54
10	6	50 55	6	52 57 2	6	54 59	6	56	6	58	7·7·7·7	6
11		55		57		59	7	1	7	3	7	6
12	7	0	7	2	7	4	7	7	7	9	7.	12
13	7	5 10	7 7 7	7	7 7	10	7	12	7 7	9 15	7	
14	7	. 10	7	13	7	15	7	7 12 18	7	2 I	7_	24
13 14 15 16	7	15 21 26	7 7 7	7 13 18	7 7 7	21		24	7	27	7	31 37 44 51 58
16	7	2 I	7	24	7	27	7 7	30 36 42	7	33 40 46	7 7 7 7	37
17 18	7	26	7	29	7	33	7	36	7	40	7	44
18	7	31	7	35	7	38	7	42	7	46	7	51
19 20	7	31 37	7	41	7	33 38 45	7	49	7	53	.7	58
20	7	43	7	47	7	51	7		-8	0	8	5
21	7	43 49	7 7 8 8	47 53 59 6	7 7 8 8 8	51 57	7 8 8 8	55 3	8 8 8 8	7	8 8 8	12
22		55	7	59	8	4	8	9	8	14	8	20 28
23	7 8 8	55 I	8		8	4	8	16	8	22	-8	28
24	8	7	8	12	8	18	8	24	8	30	8	36

By these Tables the Times of the Sun's Riging and Setting may be found, in any Part of the Kingdom of Greet Britain or Ireland, after the following Manner: Where the Latitude of the Place is known, take the Sun's Declination course the Table, on the Noon of the Day you defire to know the Time of his Rising, and Setting; and with it, actional ing as it is either North or South, enter these Tables in the

of his visible half Duration above the Horizon.

'l'ha	C. 10 '4	130013	neting	South.
1 116	Gun a	DUCII	HAUVE	. ocutine

and den a passing dentity												
Degr.	Lat	· 49	Lat	50	Lat	. 51	Lat.	5 ²	Lat.	53	Lat.	54
7	'h	m	. h	m	h	m	h	m	h	m.	h	m
0	6	4	6	4	6	4	6	4	6	4	6	.4
0 1		59		59		58 53 49		58	5	58 58		58
2	Ś	54	Ś	54	5 5	53	5	5.3	5	53 48	5	53
	5	49	5	54 49	5	49	5	48	5	48	Ś	47
4	5 5 5	45	5	44	3	44	5 5 5	58 53 48 43	5	42	Ś	58 53 47 42
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7	٠,٠	26		25	1	23	5	22	1	2 i		10
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	5 5 5 4	17	5 5 5 4	15	5 5 4	13	5 5 4	6	5 5 4 4		5	,
12	2		2		2	2		ō	1 2	5 8	4	£6
12		7 2	2	5]]	3 57	1		I	52	4	50
14	1	57	1 4	54	4	52	4	55 49	4	52 47	4	44
12 13 14 15 16 17 18 19 20		-2/		49	_	52 46			1 🕂	17		
12	4	52 46	1 7	49	4	41	4	44 38	4	24	4	3/
17	4	41	4 4	45 38	4	35	4	22	4	41 34 28	4 4	3.
18	4	36	1	33	4	29	1	32 26	4	22	4	37 31 23 18
10	4	30	4	27	4	23	4	19	4	15	4	1.1
20	-		_	21	_		_	12	1-4			
21	4	25	4	15	4	17	4	13	4	9	4	4 57 50
22	4	19 13	4	15	4		4	۵	2		3	2/
23	1 7		1 7	9	7	5 8	1 7		1 2	33	2	42
24	4.	7	4 3	. 56	3	51	3	53 46	3 3 3	55 47 40	3 3 3	34
	*			٠ ٠٠٠	, ,	<u>., .</u>	, ,	7	1 3	70	1 3	24

Left-hand Column, under the Word Degrees; then look the Latitude of the Place in the Top of the Table; and in that Column, against the Sun's Declination, will be found the Time of his visible has Duration above the Horizon, or Time of his Setting, worred by Refraction; then subtract the Time of his Setting; from 12 Hours, the Remainder will be the Time of his Setting;

A Table of the Sun's femi-diurnal Arches, or Times

The Sun's Declination North.												
Degr. 10 - "	Lat.	55	Lat.	56	Lat.	57	Lat.	58	Lat.	59	Lat	. 60
gr.	h	m	h	m	h	m	h	m	h	m	h	1071
-												
0	6 6 6	4	6 6 6	4 10 16	6 6 6	4 10 16	6 6 6 6	4	6	4	6	4
	.0	.9	0	10	0	10	0	10	0	11	6	11
2	0	15	2	10	0	10	0	17	6 6 6	17	0	18
3	0		6	22 28	6	22	0	23	6	24	6	25
4		27			1	29		30		3		32
3 4 56	6 6 6	32 38	6 6 6 .6	34	6 6 6	35 41 48	6 6 6	23 30 36	6 6 6	38	6 6	39 46 53 1 8
6	. 6	38	6	40 46	6	41	6	43 49 56	6	44 51 58	6	46
7 8	6	44	6	46	6	48	6	49	6	51		53
8	6	50	6	52	1	54 1		56	•	58	7	1
9	6	50 56	.,6	58	7		7	3	7	5	7	
<u>9</u> 10 11	7	. 2	7	5 10 18	7	7	7 7 7 7	10	7	13		16
11	7 7 7	. 8	7 7 7	10	7 7 7	14	7	17	7 7 7	20	7 7 7 7	23
12	7	15 21 28	7	18	7	21	7	34	7	27	7.	31
-13	7 7	21	7	24	7	28	7	31	7	35	7	39
14	7		7	31	7	35	7	39	7 7	43	7	31 39 47
13 14 15 16	7	34 41 48	7	39	7	42	7 7 7 8	46	7 7 8 8 8	43 51 59	7	56
	7	41	. 7 . 8 8	45 52	7	49	7	54 1	7	-59	7 8 8 8	4 13 22
17	7 7 8	48	. 7	5 2	7 8 8	57	8	1	8	7 16	8	13
84	7	55	8	0	8	5	8	10	8		8	22
19		<u>, 2</u>		7		13	8	19 28		25	·	32
19	. 8	55 2 10 18 26	8	15 24	8	13	8		8 8	35	8	42
21	8	18	8	24	8	30	8	37	8	45		53
22	8 8 8		8 8 8 8	32	8	39	8 8 8	47		35 45 55 6	9 9	16
23	8	34	8	41	8	49		57 8	9	6	[9	16
24	. 8	43	8	51	8	59	9	8	· 9	18	9	29
												- 1

the Sum will be the Length of the Day; and double the Time of his Rifing, the Sum will be the Length of the Night, But if the Latitude of the Place, and Declination of the Sun, confit of Degrees and Minutes, then a small Allowance must be made for the Minutes in both Cases, which may be done by a Person of an ordinary Capacity by a mental Proportion only. Thus, to find the Time of the Sun's Rifing and Setting

of his visible half Duration above the Horizon.

The Sun's Declination South.

Degr.	Lat.	55	Lat.	56	Lat.	57	Lat.	58	Lat	59	Lat.	60
	h	m	<u>h</u>	m	h	190	h	m	h	m	h	m
10	6	4	6	4	6	4	6	4	6	4	6	4
1 -	L	58	5	58	5	58	5	58			5	57
2	5	58 52	.5	52	5	52	5	51	5	51	5	50
	5	47	5	58 52 46	5	58 52 45	5	45	5	44	5	43
3 4 5 6	5 5 5	4!	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	40	5 5 5	39	55555555	58 51 45 38	5 5 5	57 51 44 37	5	57 50 43 36
5	5555	35 29 23 17 12	5	34 28	5 5 5 5	33 27	5	\$2 25 19	5 5 5 5 5	3 I 24	5	29
	5	29	5	28	5	27	5	25	5,.	24	5	22
7 8	5	23	5	22 16	5	20	5	19	5	17	5	15 8
	5	17	5	10	5	14	. 5	12	5		5	8
<u>9</u> 10	5		5	10	5	14	_5_	5	5	_ 3	5	2
10		5 59 53	5	3	5	ŧ	4	5 59 52	4	56 49	4	53 46 38 30 23
11	5 4	59	4	3 57 51	4	54 48	4	52	4	49	4	46
12	4	53	4	51	4	48	4	45	4	42	4	38
13		47		44	4	41	4	45 38	4 4	34	4	30
14	14	41	4	37	4	34	1	30	4	27	4	23
14 15 16	4	34	4	31	4	27	4	23	4	19	4	14
16	4	27	4	34	4	20	4	15	4	11	4	6
17, 18	4 4	2 i	4	17	4	12	4	8	4	3	3	57 48
	4	14	4	9.	4	5	4	0	3	54	3	48
19	14.		4	2	3	5 56	3	51	4 4 3 3	54 45	3	39
20	3	59	3	54		49		43		36		39
21	3	59 52	3 3 3 3	54 46 38	3 3 3	49 40	3 3	43 34 24	3 3 3 3 3	27	3	3 9
22		44 36	3	38	3	31	3	24	3	17 6	3 2	9
23	3	36	3	29	3 3	23	3	15	3			57
24.	3	27	3	20	3	13	1 3	5	1 2	55	2	57 45
	7 7											

at Aberdeen in Scotland, on the Longest Day; the Latitude of that Place is accounted 57 Degr. 7 Min. North, and the Sun's Declination 23 Degr. 28 Min. Ilhewise North. By these you will find by the Table, that 5 Min. for the Latitude of the Place, are both, teche adjust to 8 Moura 49 Min. the Time belonging to 57 Degr. of Latitude 22 Degr. of North Declination, and the Sum will be 8 Hours 55 Min. the Time of his apparent Setting at Aberdeen, on the longest Day, whose Complement to 12 Hours, viz. 3 Hours 5 Min. will be the Time of his Rising, Sec.

A Table of the Sun's Right-Ascension in Time, the greatest

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The time of the southing or meridian transits of the fixed stars in pa. 46, may be found thus. On the noon of the day, preceding the night in which you want to know the time of the southing of any of those star; find the Sun's place in the Ephemeris, and with it take out of the above table his right afection to a minute, which will be sufficient for your present purpose: Then from the sight-ascension of the star in pa. 46, subtract the right-ascension of the sun, the remainder will be the estimate time of the star's southing, and will not differ from the crue time above 2 or 3 minutes at most, which may be near enough for ordinary ofer. But when great exactness is required, reduce the Sun's place to this estimate time, and with it find in the above table his right ascension to econds, which being subtracted from that of the star, the remainder will be

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Annexed is an Ex. of Status for

 A Table of the mean Right-Alcenfions in time, Semidurnal-Ares, Declinations, and Magnitudes of 40 remarkable fixed Stars, with their Names, and Bayer's Literal Characters, for January 1, 1782.

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A Table of the Longitudes, Latitudes, and Magnitudes of the most remarkable fixed Stars that the Moon can Eclipse, or make a near Appulse unto; exactly rectified to the beginning of the year 1780.

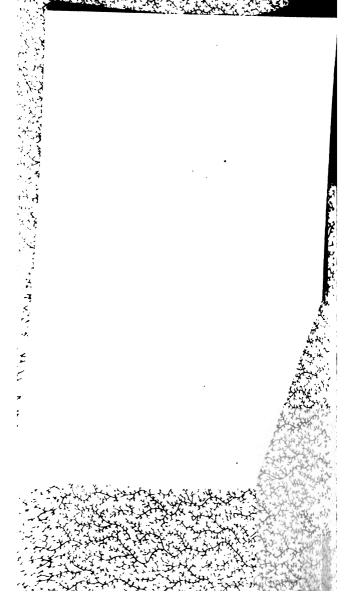
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ļ.	B	19 30 14	37	2		B	29 52 12	5 26 15 8 1 2 18 8	3 2			
١	۲	21 42 5	, ,	3		,	F 0 7 50					
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1	1.		2 2 28 0	3		7	8 23 19	6 521 8	4			
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l	a	20 46 2		1			14 4 16					
-	•		·	١١								

This table shewing the mean longitudes of 60 stars to the beginning of the year 1780, their mean longitudes for any other time may be found if 50 seconds be added for each succeeding, and subtracted for each preceding year, and proportionably for a part of a year. Thus, to find the longitude of the stift star H d, or p pissium, for Feb. 15, 1782, or 2 years and one eighth after the tabular time; here 2 stimes 50 steen make 1' 47', which being added to the tabular longitude, gives 9' 11" 6' 35" for the longitude required at the given time.—The latitudes vary not.

The Latitudes and Longitudes of Ninety Places.

1	70.4	Datitude	and word	groves of Minery Places,							
1	,	Lat.	Long.	11	Lat.	Loo					
Į		0 1	6 1	11	18 /						
I	Alexandria, Egyp				32 25 11	, ,					
1	Amsterdam, Hol.				50 6 n	5 5					
١	Archangel, Ruf.	64 34 n			43 33 n						
- 1	Athens	37 40 0			52 38 n	2 54					
-	Babelmandel	12 50 n			53 22 D	3 10					
١	Batavia	6 12 1	106 45 e	Lime	12 18	76 5c					
-1	Bengal	22 O D	92 45 e		38 42 n	9 4					
ı	Berlin Book 70	52 33 n	13 26 e	Lizard	49 57 1	5 2 1					
ſ	Bombay Isle	19 42 n	73 3 e	London	51.31	_0 0					
1	Bofton, Amer.	42 25 D	70 37 W		13 8 n	80 7					
- 1	Breflau	51 3 n	17 13 e	Medrid	40 25 D	_ 3 45					
	Breft Briant	48 23 n	4 30 W		14 30 D	120 25					
	Briffol	51 28 n	2 30 W		43 18 n	5 2 1					
ł.	Buenos Ayres	34 35 8	58 O W			100 5					
	Cadiz	36 31 n	6 7 w	Miffiffici, mouth		89 17					
	Calais	50 58 n	1 51 e	Molcow	55 25 D	37 51 0					
ľ	Cairo, Egypt	30 2 11	31 26 e	Naples	40 51 n	14 19					
	Cambridge	52 13 n	0 4 6	Newcastle	55 00	1 18					
	Canaria Islanda	28 In	15 O W	Oporto	40 53 D	8 35 v					
	Canton		13 2 e	Orkney I, northend		3 23 4					
13	Cape of Goodhope		18 23 e	Oxford	51 45 n	1 16 w					
	Cape Horn	55 59 3	67 26 W	Paris	48 50 n	2 25 e					
13		10 27 n	75 26 W	Pekin	22 22 1	16 22 c					
13	harles Town Am.		79 50 W	Peteriburg	59 56 n	30 19 e					
Ľ		41 On	28 53 e	Philadelphia Philadelphia		75 18 w					
		55 41 n	- 1	Plymouth	50 24 0	4 15 W					
		37 30 n	23 Oe		39 51 B	3 53 €					
		51 54 n	8 30 W	Port Royal, Jam.	17 40 1	76 37 w					
		54 22 n	18 36 e		50 48 B	1 IW					
		51 7 B	1 19 6	Prague		14 15 e					
		53 12 n	6 55 W			71 12 W					
	dinburgh	55 58 n	3 1 4			12 32 e					
	erro, Ifie	-, (18 6 %	Scilly Ides	50 O D	6 45 W					
		42 57 n	9 36 w			7 25 0					
		44 25 n	8 41 6		1	18 12 e					
		36 5 n	4 46 w			15 20 e					
		55 52 n	4 5 *		35 55 B	\$ 45 W					
		,	73 50 e		28 16 n 1	6 32 W					
		51 32 0	9 58 0		;	0 16 e					
		51 29 n	0 50		45 5 1	7 45 e					
	acluit's Head.		12 0			2 24 6					
H	alifax, America		63 20 W	Veid, Cape		7 28 W					
						6 28 c					
	elena, I. St. 1	5 55 8			59 52 n I	7 43 e					
Ľ	13	1 50 n	5 2 5 e	Uraniherg	55 54 n i z	2 52 0					

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